





KNOWLEDGE ORGANISER YEAR 11

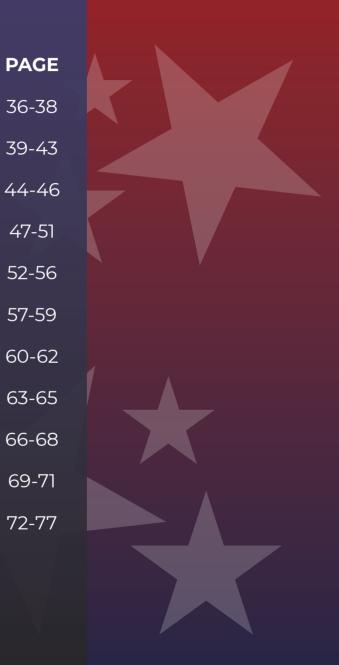
Student Name:

Year and Form:

★ RESPECT ★ RESILIENCE ★ INTEGRITY ★ COMPASSION ★ AMBITION



SUBJECT	PAGE	SUBJECT
Art & Design	3-5	History
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YEAR 11 TERM 1

GCSE Fine Art AO1/2/3 Develop/Refine /Record

Composition techniques

There are a number of different ways composition can be developed:

Move objects around in a still life or change the pose in portraiture or figure composition.

Try different arrangements, e.g. linear, triangular or circular compositions.

Change how natural, organised, busy or sparse your composition is.

Use different amounts of <u>**negative space**</u>, showing more or less background.

Experiment with **leading lines** to draw the viewer's eye into the composition.

Change the height and angle of your viewpoint.

Use frames within frames e.g. looking through objects to frame elements of the composition.

Create a cropped composition by zooming in to a specific area. Try different backgrounds.

Remember to link this to at least 2 of the artist you have looked

Composition using technology

Taking photographs of different arrangements can help development: You can try out different viewpoints and arrangements quickly. It is easy to change between landscape and portrait format to try different effects.

The camera's viewfinder can be used to 'frame' compositions and preview the result.

Working from photographs can be more practical for subjects that might move or where conditions might change.

New compositions can be created by cropping existing images digitally. Remember that artists use photography as a tool to record visual information. It is still important to create your own personal response to the image by experimenting with materials and techniques.



Refining ideas

After your initial development you should select an idea and work on refining it. Refinement is the improvement of the idea. It does not involve radical changes, but is about making small changes which improve the idea in some way. This might be done by

Modification of the composition – e.g. replacing one object with another or changing a pose slightly

Variation of a technique – e.g. trying oil pastel rather than painting to achieve an expressive style

Adaptation of the idea – e.g. including some detail in the foreground of a landscape to add more depth and distance Alteration of an aspect – e.g. arranging objects in a triangular composition instead of a linear grouping, or changing the colour of the sky in a coastal scene to achieve a more dramatic atmosphere

Enhancing an element of the idea – e.g. improving the application of a particular technique, or harmonising the background colours with other aspects of the composition Fine-tuning a technique or an aspect of the composition. Tweaking the positioning of a subject to make the composition more balanced, or to create more tension, as appropriate.



GCSE Fine Art AO4 Present

Present

This means you will present a personal and meaningful response that realises your ideas and your understanding of the artists and the different materials you will use

Planning your Personal Response

Remember to think about the following points when planning your final piece: The arrangement of your images think about linear, triangular or circular compositions.

How natural, organised, busy or sparse your composition is.

Use of negative space, showing more or less background.

The use of leading lines to draw the viewer's eve into the composition. The use of height and angle of your viewpoint...

The use of cropped composition by zooming in to a specific area. How you have use developed the background.

Practise with the materials you will use in your final piece Remember to annotate your work explaining what oy have done

Producing your Personal Response

Take photographs of your work at different stages:

Work on board, canvas or paper the materials need to suit your strengths and the style of the artists or art movement you have looked at in your sketchbook

Create a piece that has impact and is bold that highlights your skills and understanding.

Your composition may change from your planning of your final piece, you need to explain this within your evaluation

It is still important to create your own personal response to the project by experimenting with materials and techniques.





CONNECTION

CONCLUSION

Final piece and Evaluation of your work

After your have planned out and refined your idea for your final piece you will need to produce a larger version. This can be on any size or any background from card to canvas. You can adapt and change your final piece from your plan if needed.

Once this is complete you will need to take a photograph of your final piece and evaluate your work. Remember to look back at your statement of intent that you wrote at the start of the project, have you achieved what you set to do?

Prompt question for your evaluation

Describe your work and how it has developed over the project, does it

link to the starting point? How and Why?

What changes have I made to my work and why did I do this?

Do you feel your final piece is successful and how does it link to the

artists and art movements you have looks at?

What materials and techniques you have used within your work?

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Fine Art GCSE Exam Prep & Art Exam NEA

Externally Set Task

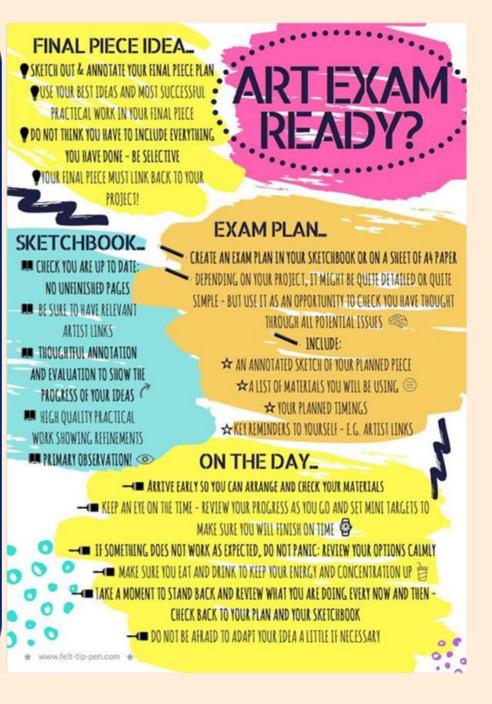
Using the skills, knowledge and understanding you have developed over the course you will be expected to create a project based on a starting point given to you by the exam board.

Sketchbook for Externally Set Task

will be completed from 2nd Jan up until the 1st day of the exam and will include:-

- Title page with chosen guestion
- Mind map
- Mood board
- 1st Artist research small copy & own response
- 2nd Artist research small copy & own response
- · 15-20 photographs linked to your chosen project/artists
- Observational studies pencil x2
- Observational studies colour and other materials x3
- · Experimentation page including mark making and the use of other materials
- · Design idea 1 these need to be sketch out developed and an A3 piece within the sketch book
- · Design idea 2 these need to be sketch out developed and an A3 piece within the sketch book
- · Final Design Idea planned and sketched out in sketch book with annotation
- · Annotations throughout the sketchbook supporting your ideas
- · Final piece to be completed in 10hr under exam conditions







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Theme 2

overseas)

2.1.1 Business growth

Methods of internal growth (organic)

development and innovation

Methods of external growth (inorganic)

such as getting a new leader.

2.1.3 Business and globalisation

overseas businesses

trading blocs

compete internationally

costs.

New products developed through research and

New markets (through changing the marketing mix or

taking advantage of technology and/or expanding

Merger- When two companies come together

2.1.2 Changes in business aims and objectives

Why business aims and objectives change as

How business aims and objectives change as

The impact of globalisation on businesses:

Imports: create competition for UK firms from

Allow UK businesses to buy from overseas

different countries in order to avoid tariffs

Barriers to international trade: The two main

methods of discouraging imports are tariffs and

businesses evolve: • in response to: market conditions.

technology, performance, legislation, internal reasons

businesses evolve: • focus on survival or growth •

entering or exiting markets • growing or reducing the

workforce • increasing or decreasing product range.

Exports: Give UK business the opportunity to sell to

market Encourage multinational businesses to operate in

How businesses compete internationally: One of the

to access a worldwide audience with very little start up

A business may need to change its marketing mix to

main ways of competing internationally is using the internet

overseas markets therefore gaining market share.

Takeover- When on company takes over another

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2.1.4 Ethics, the environment and business

Ethical considerations impact business activity in every department and there is usually a trade off with profit HR- Treating employees fairly Production- Fairtrade, child labour, working conditions Marketing-Cultural considerations, being honest in adverts

2.2 Making marketing decisions Product

The design mix- This is the formula of function, cost and aesthetics that the business uses to create their product The product life cycle- The stages in the product life cycle are introduction, growth, maturity (where extension strategies may be used) and decline

Price

Price skimming- Setting a price high because a product is new and Trade bloc- A group of countries who unique then dropping it after a while eg lphone

Penetration pricing- Setting a low price to gain market share then increasing it eq Actimel

Destroyer pricing- Setting prices so low that it destroys the competition eq Rvan Air

Psychological pricing- Using 99p at the end of the price so that the customer thinks it is cheaper

Premium pricing- This strategy is used by most branded products. It is charging a higher price because the consumer sees the product as having added value eg Mac make up

Influences on pricing strategies: technology, competition, market segments, product life cycle.

Place

This refers to where a product or service is sold. There are two main options; to become a retailer or an e-tailer

Retailer- Sells in a store

E-tailer- sells online

Promotion

This is how a business gets their brand out into the public eye. There are lots of options for promotion including advertising, sponsorship, product trials, special offers, and branding

previous years trading Sale of assets- Selling items that the business owns such as a van Loan capital- Money from a bank loan Share capital- Money raised from selling shares Stock market flotation- Selling shares on the stock exchange **Aim-** A long term goal Objective- A step taken to achieve a goal Legislation- A law Imports - A good bought from abroad Export- A good made in the UK but sold abroad **Tariff-** A tax on imported good that makes them more expensive agree to trade freely together E-commerce- Buying and selling online The marketing mix- Price, product, promotion and price Ethics- What is considered morally right or wrong in a business situation Trade off- This refers to the trade off between ethics and profit. Acting ethically reduces profit due to increased costs **Pressure group-** A group of people that try to influence a business' behaviour Product life cycle- The stages all products pass through from research and development to being taken off of the market **Extension strategy-** This takes place in the maturity stage of the product life cycle

Retained profit- Profit kept from

and its aim is to extend the lift of the product and prevent it going into decline. Examples including new packaging or new flavours

Product differentiation- Giving your product a USP so that it stands out from other products

May lead to business relocating to be closer to their target ST **BUSINESS**

Theme 2

2.3 Making operational decisions

The purpose of business operations is to make goods and services

- Three main types of production
- Job production- Making one of unique products. Involves lots of labour and is expensive
- Batch- Making batches of products. Often used in bakeries
- Flow- Continuous automated production

Working with suppliers Benefits of just in time

- Stock does not go out of date
- Stock cannot be stolen
- Storage and security fees are less
- Discourages waste
- Capital is not tied up in stock

Drawbacks

- Cannot fulfil demand if a delivery is late
- No spare stock if mistakes are made or a component is faulty
- Poor weather can impact deliveries
- Cannot cope with an unexpected spike in demand

The role of procurement

The role of procurement is to build relationships with suppliers. This allows the business to control the quality of their product. It also means they can ensure that delivery occurs reliably, at a cost and speed they are happy with.

The procurement decisions made will impact:

- Costs- The cost of raw materials and delivery
- Reputation- Good procurement should mean the business can always fulfil demand
- Customer satisfaction

Managing quality

Managing quality is important to a business because it helps them to control cost and create a competitive advantage.

There are two main methods of controlling quality, quality control and quality assurance.

Quality assurance- Quality is everyone's job. Each person is responsible for their part of the production process and refuses to take faulty production from the stage before. This means that products are checked throughout the process for faults. **Benefits**

- · Less waste as faults are identified earlier in the production line
- Better quality as quality is checked at each point in the production process
- Better customer satisfaction through better quality
- Lower costs through less wastage
- More motivated staff as they are empowered by having responsibility for quality

Drawbacks

- Cost of staff training
- Quality has to be part of the culture to work

Quality control- Quality is the job of the quality control manager. They spot check products at the end of the production line.

Drawbacks

- Higher managerial costs
- Higher wastage as faulty product aren't picked up until the end of the production process
- Creates an us and them culture as employees may feel that the quality control manager is checking up on them
- Lower customer satisfaction due to higher levels of faulty products being sent out

The sales process

- 1. Product knowledge
- 2. Speed and efficiency of service
- 3. Customer engagement
- 4. Responses to customer feedback
- 5. Post-sales service

The benefits of good customer service

- Better brand reputation
- More product trial
- Higher levels of repeat purchase
- Stronger brand loyalty
- Increased sales revenue

production Labour intensive- A production process that requires lots of hours of labour **Cost per unit-** This is the cost to produce one product **Productivity-** The amount of finished products a worker is able to produce in a given period of time. The higher the amount. the lower the cost per unit. Just in time- A method of production where raw materials are delivered just in time for production **Just** in case- A method of production where buffer stock is kept just in case it is needed **Buffer stock-** The minimum level of stock that a business holds Lead time- The amount of time it takes an order to be delivered Reorder level- This is the level at which a business will reorder raw materials **Procurement** - getting the right supplies from the right supplier, at the right price and at the right time. Procurement is a vital component of business success, customers expect products to be available when they need them, and in the right quantity. **Logistics**-making sure the correct products are procured and that they will arrive when needed. Logistics is a vital part of any businesses supply chain management. Logistics involves three main elements, transportation, storage and distribution. Quality- making sure that products are made to a minimum standard expected by customers or better Competitive advantage- Something that a business can do better than its competitors

Automation- The use of machinery in

business can do better than its competito Brand loyalty- When consumers try a brand and buy that to the exclusion of others

Sales revenue- Money from sales **Product trial-** When a customer first tries a product



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YEAR 11 TERM 2

BUSINESS STUDIES



2.4 Making financial decisions Gross profit = Revenue - cost of goods sold Net profit= Gross profit- expenses Gross profit margin(%)= Gross profit/revenue x 100 Net profit margin (%)= Net profit/revenue x 100 Average rate of return= Average profit/ cost of investment x 100

2.4.3 Understanding business performance

Market share= firms market share/size of the whole market x 100 Calculating a % change= Difference / original amount x 100 **Revenue=** Quantity sold x selling price Averages= Add all amounts together/ number of years or months Profit= Revenue - total cost Net cash flow= Inflows- outflows **Total costs=** fixed + variable costs **Closing balance =** Opening balance + net cash flow

Organisational structures

Tall structure benefits Opportunities for promotion Small spans of control Drawbacks Communication takes longer and is poorer Staff may feel overmanaged Higher fixed costs from salaries

Flat structure benefits

More teamwork More staff empowerment Lower wages Faster and more efficient communication

Drawbacks

Wider spans of control, managers might be stressed Less opportunities for promotion

Communication

Barriers to effective communication- Jargon, excessive communication, insufficient communication, language barriers and time barriers

The importance of communication- Good

communication means better customer service, more motivated employees and more efficient production which reduces costs

Different ways of working

Flexible working- Employees fulfil a number of hours in a month or year but can choose when as they do not have set hours

There are many different methods of training emplovees.

Formal training- such as courses and qualification Informal training- sitting with colleagues to learn the role

Self learning- initiated by the employee themselves **Ongoing training-** Delivered by the organisation Performance reviews- The use of target setting to improve employee performance

Why businesses train and develop employees

Motivation-Investing in employees makes them feel loved which increases their motivation Lower labour turnover- Happy employees are less likely to leave

Lower absenteeism- Happy employees are less likely to ring

in sick

Better quality products- Through increased motivation and staff training. Low levels of faulty products means lower costs for the business

Key terms

Gross profit- Profit left after the cost of goods sold has been taken away **Net profit-** Profit that is left after both fixed and variable costs have been deducted Gross profit margin- This is the % of revenue that is turned into aross profit **Net profit margin-** This is the % of

revenue that is turned into net profit Average rate of return- This is the average

vearly return (%) from an investment Tall structure- A business structure with lots of layers in its hierarchy

Flat structure- A business structure that has few lavers

Subordinate- Someone under the authority of someone else

Line manager- Someone who has authority over subordinates

Span of control- The number of people a manager is managing

Narrow span of control- The manager is managing less than five people

Wide span of control- The manager is managing more than five people

Hierarchy- The chain of command

through which authority passes

Delegation- Giving a subordinate some of your authority

Empowerment- Giving employees power to make decisions which improves their motivation

Insufficient communication- Not enough communication

Excessive communication- Too much communication

Freelance contract- A person is hired for a specific project such as a wedding photographer

Remote working- Working from home

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Abstraction

Abstraction is the process of removing unnecessary details and including only the relevant details.

It is a method of computational thinking that focuses on what is important when solving problems.



Road signs take away details that the driver doesn't need to see, whilst keeping the essential information.

Example of Abstraction

When you write a program to play a game involving dice with a computer, how does the computer "roll the dice"?

Algorithm:

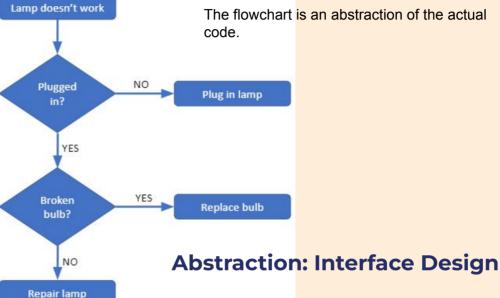
- Create a variable to store the result
- Randomise a number between 1 and 6
- Set the number to be an integer
- Store the number inside the variable
- Display the data stored inside the variable

Abstraction:

Randomise an integer between 1 and 6



Flowcharts are another example of how we can use abstraction during program design.



interface of a sat-nav?

What is important to include in the display output?

What is less important?

Include

- Car location
- Road layout
- Additional icons for volume, time, battery life, etc.

Don't include

- Buildings
- Trees/countryside



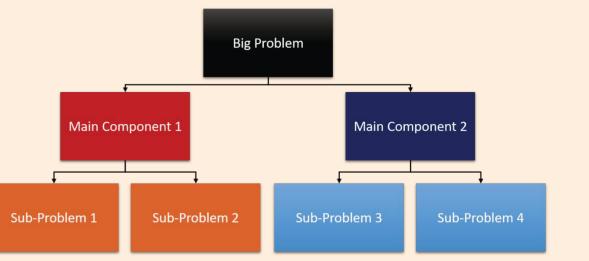


Decomposition

What is Decomposition?

Decomposition means breaking a complex problem down into smaller, more manageable parts.

Dealing with many different stages of a problem at once is much more difficult than breaking it down into a number of smaller problems and solving them one at time.



Decomposition in daily life

There are many tasks that you do on a daily basis:

- Getting up in the morning
- Brushing your teeth
- Getting to school
- Doing your homework

These are complex tasks with many steps involved, but you break them down into smaller tasks and execute them without even thinking about it.

Even an everyday problem like crossing the road can be broken down into smaller sub-problems:

- Stop before crossing
- Look left and right
- Is the road clear?
- If not, press the crossing button
- Wait for the lights to turn red
- Cross when it is safe to do so

Breakout

How it works:

- A paddle controlled by the player moves along the bottom of the screen.
- The paddle can move left or right.
- A ball bounces off the paddle and is redirected towards the blocks.
- If the ball hits a block, it is removed from the screen.
- The aim is to remove all the blocks.
- If the ball leaves the bottom of the screen, the player loses a life.

How could we use decomposition to help us break down the tasks involved in programming this game?



Breaking down the problem:

- Display the paddle on the screen.
- Make it move left and right.
- Prevent it moving off the left and right edges of the screen.
- Display the ball on the screen.
- Get the ball moving.
- Display the blocks on the screen.
- Get collision detection working.
- Implement winning and losing.
- Add extras flair, sounds, background, effects, graphics, etc.

YEAR 11 TERM 2





Algorithms and Boolean Logic

What is an Algorithm?

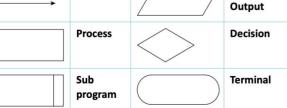
An algorithm is a logical, step-by-step set of instructions used to solve a problem.

Algorithms: Pseudocode vs Flowcharts

Pseudocode is not a programming language, it is a simple way of describing a set of instructions that does not have to use specific syntax. Writing in pseudocode is similar to writing in a programming language. Each step of the algorithm is written on a line of its own in sequence.

A **flowchart** is a diagram that shows an overview of a program. Flowcharts normally use standard symbols to represent the different types of instructions . These symbols are used to construct the flowchart and show the step-by-step solution to the problem. Flowcharts are sometimes known as flow diagrams.

Flowchart Symbols



Input/

01	$\mathbf{x} = 0$		
02	while	True	Э
03	pr	int	x
04	endwhi	le	

ocode	05		brine v	2
Each	04	endw	nile	
n in				
Yes	STAF Enter nun minutes J Minut > 120	nber of played tes	No	
ayed games long!"	7		Say: "You are under your time limit!"	
	END			
_				

Boolean Operators			Logic Gate Symbol
AND (Conjunction)		on)	
	AND		
Α	В	A AND B	An AND gate can be used
0	0	0	on a gate with two inputs.
0	1	0	AND tells us that both inputs have to be 1 in orde
1	0	0	for the output to be 1.
1	1	1	
	OR (Disjunctic	on)	
	OR		
А	В	A OR B	The OR gate has two
0	0	0	inputs. One or both inputs
0	1	1	must be 1 to output 1,
1	0	1	otherwise it outputs 0.
1	1	1	

NOT (Negation)

N	ТС
А	NOT A
0	1
1	0

A NOT gate has just one input. The output of the circuit will be the opposite of the input. If 0 is input, then the output is 1. If 1 is input, then 0 is output.

Topic A: Modern Technologies

What is an Ad Hoc Network?

A wireless **network** that transmits from computer to computer. Instead of using a central base station (access point) to which all computers must communicate, this peer-to-peer mode of operation can greatly extend the distance of the wireless **network**.

Tethering is the term used for broadcasting your phone's mobile signal as a Wi-Fi network, then hooking a laptop or any other Wi-Fi-enabled device up to it to connect to the internet.

What is Cloud Computing?

means a type of **Internet-based computing**, where different services including servers, storage and applications are delivered to an organization's computers and devices through the Internet.

Features and uses of cloud storage

- · setting and sharing of access rights
- · synchronisation of cloud and individual devices
- availability (24/7)
- scalability (getting more by renting/freeing to save money).

Features and uses of cloud computing

- online applications
- · consistency of version between users (features, file types)
- · single shared instance of a file
- collaboration tools/features.



Remote Working

Remote working is someone who is employed by a company, but works outside of a traditional office environment. This could mean working from a local coworking space, from home, at a coffee shop, or in a city across the world.

Changes to modern teams facilitated by modern technologies:

- world teams (not bound by geographical restrictions, diversity)
- multicultural
- inclusivity (facilitation of member's needs)
- 24/7/365 (no set work hours, team members in different time zones)
- Flexibility (remote working vs office based, permanent vs casual staff).

Positive and negative impacts of modern technologies on organisations:

- required infrastructure (communication technologies, devices, local and web-based platforms)
- · demand on infrastructure of chosen tools/platforms
- availability of infrastructure
- 24/7 access
- · security of distributed/ dispersed data
- collaboration
- · inclusivity (age, health, additional needs, multicultural)
- · accessibility (meeting legal obligations, provision requirements)
- · remote working.

Positive and negative impacts of modern technologies on individuals:

- flexibility (home/remote working)
- working styles (choice of time, device, location)
- impact on individual mental wellbeing (depression, loneliness, self-confidence,
- separation from stressful environment, feel in control of own schedule, adjusted to meet needs of family, less time commuting).

A collaboration tool helps people to collaborate. The purpose of a collaboration tool is to support a group of two or more individuals to accomplish a common goal or objective. Such as Office 365, Google Apps, - Document sharing, Email, Shared message boards Communication tools include mail, email, telephones, cell phones, smartphones, computers, video and web conferencing tools, social networking, as well as online collaboration and productivity platforms.

B Cyber Security / C Responsible Use

What is Cyber Security?

Cyber security refers to the body of technologies, processes, and practices designed to protect networks, devices, programs, and data from attack, damage, or unauthorized access

Why systems are attacked:

Impact of security breach

- fun/challenge
- industrial espionage
- financial gain
- personal attack
- disruption
- data/information theft.

- data loss damage to public image
- financial loss
- reduction in productivity
- downtime
- legal action.

External threats to digital systems and data security:

- •unauthorised access/hacking (black hat)
- •malware (virus, worms, botnet,, Trojan, ransomware, spyware)
- denial of service attacks
- •phishing (emails, texts, phone calls)
- pharming
- social engineering
- •shoulder surfing and 'man-in-the-middle' attacks.

Ransomware, is a type of malware that prevents users from accessing their system or personal files and demands ransom payment in order to regain access

Spyware is unwanted software that infiltrates your computing device, stealing your internet usage data and sensitive information. Spyware is classified as a type of malware

A botnet attack is a type of malicious attack that utilizes a series of connected computers to attack or take down a network, network device, website or an IT environment.

Encryption is the process of encoding a message or information in such a way that only authorized parties can access it and those who are not authorized cannot.

A **policy** is a set of ideas or plans that is used as a basis for making decisions, and is a written document in which a course or principle of action adopted or proposed by an organization or individual has to be followed.

Defining security parameters

- password policy (sets requirement of a password for a user)
- · acceptable software/installation/usage policy
- parameters for device hardening

Environmental

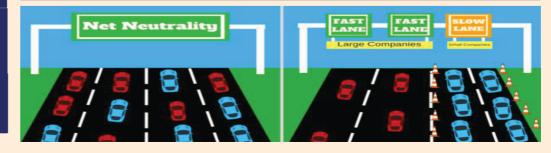
- impact of manufacturing, use, and disposal of it systems (energy, waste, rare materials)
- considerations when upgrading or replacing digital systems
- usage and settings policies (auto power off, power-saving settings, hard copy vs electronic distribution).

Disaster recovery policy

- · who is responsible for what
- dos and don'ts for staff
- defining the backup process (what is backed up, scheduling, media)
- · timeline for data recovery
- · location alternative provision (hardware, software, personnel).

Net neutrality

Network neutrality is the principle that Internet service providers (ISPs) must treat all Internet communications equally, and not discriminate or charge differently based on user, content, website, platform, application, type of equipment, source address, destination address, or method of communication. With net neutrality, ISPs may not intentionally block, slow down, or charge money for specific online content.



YEAR 11 TERM 3

C Legal / D Forms of Notation

Data protection principles

- lawful processing
- · collected only for specific purpose
- only needed information is collected
- should be accurate
- kept only as long as is necessary
- · data subject rights protected
- not transferred to countries with less protection.

Data and the use of the internet

- the right to be forgotten
- appropriate and legal use of cookies and other transactional data.

Dealing with intellectual property

- the importance of intellectual property in organisations
- methods of identifying/protecting intellectual property
- (trademarks, patents copyright)
- legal and ethical use of intellectual property (permissions, licensing, attribution).

Intellectual property

(IP) refers to creations of the mind, such as inventions; literary and artistic works; designs; and symbols, names and images used in commerce

Patents - a patent grants property rights on an invention, allowing the patent holder to exclude others from making, selling, or using the invention

A trademark (also written trade mark or trade-mark) is a type of intellectual property consisting of a recognizable sign, design, or expression which identifies products or services of a particular source from those of others

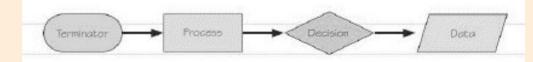
Copyright refers to the legal right of the owner of intellectual property. This means that the original creators of products and anyone they give authorization to are the only ones with the exclusive right to reproduce the work or stops anyone from copying or using the material

how organisations use different forms of notation to explain systems, data and information:

- data flow diagrams (DFD) Entities, process and data store
- flowcharts
- system diagrams
- tables
- written information.

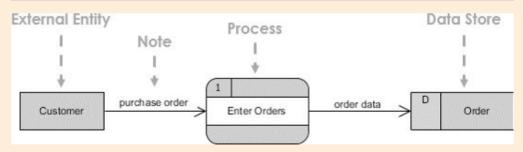
What is a Flow chart?

A flowchart is a graphic representation of a logic sequence, work or manufacturing process, organization chart, or similar formalized structure. The purpose of a flow chart is to provide people with a common language or reference point when dealing with a project or process.



What is a Data Flow Diagram?

Data flow diagrams are used to graphically represent the flow of data in a business information system. DFD describes the processes that are involved in a system to transfer data from the input to the file storage and reports generation.



What is a System Diagram?

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A system diagram is a visual model of a system, its components, and their interactions. They can be used to show the layout of office equipment. With supporting documentation, it can capture all the essential information of a system's design.

NEA Coursework Contexts

Identifying and investigating design possibilities. 10 marks Contexts are a starting point to inform possible outcomes, situations to create design briefs.

Mind map the three contexts using TEAMMFC. Analyse all the contexts for pros and cons and possible out comes. Choose the context you want to work on. Interview possible clients. Users needs, Primary data, Secondary data. Investigate past and present designers and makers, evaluate existing products or compare high, mid and low cost existing products.

Developing a design brief and specification. 10 Marks

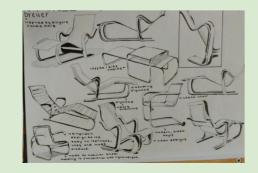
Design Brief is a concise description of the task the designer will undertake to solve the design problem or achieve what the client wants. Design Specification is a set of requirements that the product must meet, essential and extra solutions that are desirable. Also consider Environmental, social, economic, Health & Safety,

anthropometrical and ergonomic issues, you can use TEAMMFC

Generating and developing design ideas. 30Marks

Communicating ideas - Formal 2D and 3D, Sketching, isometric, line techniques, colour, shadow, Electronic schematic diagrams. Annotated sketches, exploded Drawings.

Modelling - Card, paper, foam, toiles, Prototypes - Low and High fidelity. Making decisions - usertesting, Focus Groups, A/B testing to choose designs, surveys and questionnaires, ask your client. Testing and Evaluating ideas, Refinement & modification.





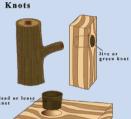
Recap Revision

Indepth Knowledge of Timber Natural and manufactured Toughness, flexibility, grain structure, strength, absorbency, surface finish, colour and hardness.

Natural timber is harvested from deciduous (hardwoods) and coniferous (softwood) trees. Natural timber is available in the following forms: plank, board, strip, square, and dowel. Natural timber can be identified by weight, colour, grain, texture, durability and ease of working.

Manufactured timbers are made from natural timbers and made from **particles/fibres or laminates**. Available in **standard sizes & forms**: plywood, MDF (Medium Density Fibreboard), chipboard, hardboard & veneered boards.

Defects: shrinkage, splits, shakes, knots, fungial attack. **Hardwoods**: beech, oak, mahogany, balsa and jelutong. **Softwoods**: scots pine, western red cedar and parana pine. Finishes are used to improve the aesthetic appeal.



Shaping/joining Timber: Tools & equipment to mark out, hold, cut, shape, drill & form laminates of natural timbers and manufactured boards. The pillar drill, jigs and formers to ensure accuracy in the process of drilling, bending, cutting wood materials. Material joining can be **permanent or temporary**. Permanent joining, veneering, laminating and steam bending.



Joints as **frame or box construction**. Frame: mitre, dowel, mortise and tenon, halving and bridle joint. **Box/carcass:** butt, lap, housing, dovetail & comb joint. **Adhesives:** PVA (wood to wood), contact adhesive & epoxy resin (wood to other materials). **Temporary**: screw (countersunk and round head) & knock down fittings.

<u>Selecting Materials</u> - Looking at Functionality, Environmental factors, Availability of materials, Cost (from raw materials, manufacturing, packaging, shipping costs as well as the selling price), Cultural Factors, as well as Social and Ethical factors, for examples FSC logo on wood. Aesthetics, Ergonomics, and need of customer and end of use/product life disposal and reclaiming.



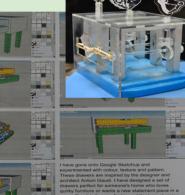
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NEA Coursework to Contexts

Manufacturing a prototype. 30 Marks Production/Manufacturing Plan.

Final Formal Drawn or CAD Design. Select and work with correct materials and components. Measure, markout, accurately with out waste. Use specialist tools and equipment, CAD/CAM to cut Materials. Shape, construct, add, reform materials to create quality outcome. Add surface treatments and

finished to protect and give aesthetic appeal to the client.







Turn on kettle

Wait for kettle



Analysing and evaluating design decisions and prototypes. 20 Marks

Evaluate the performance and suitability of the product Evaluate against the design brief and see if it matches

Evaluate against the design specification to see if it meets the essential and desirable criteria

Ask your client for feedback

Make decisions about what needs to be improved

Implement the necessary modifications and changes to the design Re-test and evaluate to check effectiveness of the changes

Recap Revision

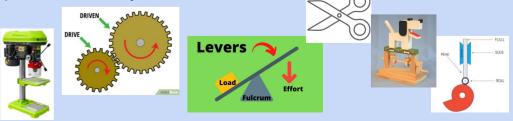
New and emerging technologies impact on industry, enterprise, sustainability, people, culture, society, environment, production techniques and systems. CAD/CAM, The product life cycle, Technology push- developments in materials and production, Market pull needs of the consumer. Fair trade, Ecological footprint.

Developments in **modern and smart materials and technical textiles** - LCD, QTC, SMA, Materials that respond to the environment/stimulation - thermo-chromic, photo-chromic. Carbon Fibre, Kevlar, Phase changing materials - breathable, heat management. Nomex, Rhovyl,

How do **electronic systems and programmable components** work - input - process - output devices. PIC used to control products/systems. Programmable microcontrollers a miniature computer programmed to perform a specific task.



Function of **mechanical devices** for movement and force. Rotary, linear, oscillating, reciprocating movement. A lever pivots on a fulcrum. The input force is called effort and the output force is called the load. Linkages direct force and movement. Cams convert rotary motion to reciprocating motion. Gears transfer rotary motion. Belt drives transfer rotary motion. Rack and pinion convert rotary to linear motion.







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Revision Recap

CIRCULAR ECONOMY

Linear and

Circular

Economy

LINEAR ECONOMY



TAKE

MAKE

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RETHINK

17



YEAR 11 TERM 3 ESIGN TECHNOLOGY

The six R's of sustainability REUSE REDUCE RECYCLE Forces and stresses

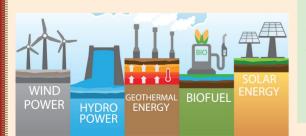
REFUSE

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REPAIR

Generation of power, renewable and non renewable energy and how it is stored and used in the world.

Tension



Investigating the work of others Airbus, Apple, James Dyson, Philippe Starck, Matthew Williamson



Evaluation and Analysis tools

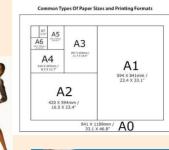
TEAMMFC- target market, ergonomics, aesthetics, materials, manufacture, function, cost, Sustainability, society, ethical, Environmental issues



Scales of Production -one off, batch, mass and continuous production. Culture & Societies have different needs, wants and values.

FSC

Consumer choice and Legislation and consumer rights have to keep up with new technology, the latest is the Consumer Rights Act 2015.





Lices of place	ics- Thermoforming	GCSE Design & Technology
Name	likes	Pictures
Polythene	plastic bags, food containers, and other packaging.	
High impact Polystyrene (HIPS)	packaging, cd casing, toys, TV parts, plastic cutlery,	
Polypropylene	Chairs, boxes, storage, kettle, bottles, straws	P D
PVC (polyvinyi chloride)	Construction industry (pipes)	



RRR



Paper and Board Products - Grams per square metre. ISO - standard size of paper. Lamination to protect paper products.

Metal products - Ferrous and nonferrous metals - ferrous with iron in them. Non ferrous without iron in them. Alloys are metals combined with other elements to improve properties.

Polymers - Thermoforming can be reheated many times and Theromosetting can only be heat and set once - Polymers are coloured in pellet form and then heated and shaped.

Natural and synthetic fibres &

different types of fabrics. Natural fibres are plant (cotton, linen, bamboo), animal (wool) hair or insect (silk). Manufactured or synthetic fibres come from oil and coal. Microfibres are 100 times finer than human hair. We blend fibres to get different properties. Woven fabric stretches diagonally, knitted fabrics stretch in all directions. felted. non-woven fabrics do not stretch.



NEA1 - Food Investigation Task

-			
NEA1 – Food Investigation Task - Overview	Functional Properties	Research - 6 marks	Investigation - 15 marks
NEAT – Food Investigation Task - Overview The investigation and writing of the report must not exceed 10 hours. A written or electronic report which will be 1500–2000 words. This will be approximately 6–8 sides of A4 or A3 equivalent. This includes all charts, annotation, practical results, etc. The Food Investigation tasks will be released in September of the final year of assessment. The Food Investigation task is marked out of 30 and this will be 15% of the final GCSE grade. Your teacher will be marking against the following three criteria: • Section A: Research: 6 marks • Section B: Investigation: 15 marks • Section C: Analysis and evaluation: 9 marks. Total: 30 marks.	Thinking about each ingredient, What does the ingredient actually do?Chemical PropertiesHow does it do it? What makes it happen?Protein denaturation Chemical bonds Amino acids Coagulation Foam formation Caramelisation Dextrinisation Gelatinisation Emulsification Aeration Plasticity Shortening Enzymic browning	 Background information on ingredients: Find out how the ingredients work within the recipe and why. Aims - write some aims for the investigation linked to what you have found from your research. What are you trying to find out? Plan the investigations - what are you going to do? How are you going to do it? Does it help you investigate your aims? Fair testing - the methods must be the same for each experiment e.g. same cooking times/temps., same quantity of ingredients, same size etc. Hypothesis - what do you predict will happen in each experiment/investigation? Think about 	Investigate - carry out your experiments linked to your hypothesis. There should be a clear aim for each experiment - what is it that you want to find out? Results - make sure you create your tables before you start your investigation so that you can easily and accurately record what is happening. Record results using graphs, charts, tables, photographs - photographs must show what you did. Findings - what did you find out from each experiment? You must fully explain what happened during your experiment. Use your results table to talk about what you found.
NEA1 – Food Investigation Task - Key Terms Analyse – to break down a task or	Oxidation Chemical/Biological/ Mechanical	what you have found out from your research to make accurate predictions.	Link your findings to your hypothesis - was it what you expected/predicted?
question explaining the key words	Gluten/Gliadin		- p
and what is required.	/Glutenin	Analysis and Evalu	ation - 9 marks
Hypothesis - an idea, prediction or	Triglyceride	Analyse and interpret the result of each in	
explanation that you then test through investigation and	Saturated	can be used in other practical food prepara	•
experimentation.	Unsaturated	Evaluate the hypothesis and justify the fir	0
<u>Control</u> – a standard of comparison	Monosaccharide Disaccharide	from your hypothesis? Why might this have	•
for checking or verifying the results on an experiment.	Polysaccharide	research findings. Explain how the ingred they didn't work how they should, why mig	ents you used worked and why - if

NEA2 - Food Preparation Task

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A2 – Food Preparation Task - Overview	Research - 6 Marks	Demonstration - 18 Marks	Planning Final Menu - 8 Mark
actical work and portfolio must not exceed Irs. This includes a 3-hour practical session to make ee final dishes.	Analyse the task - Explain what the brief is asking you to do.	3-4 dishes to demonstrate your technical skills.	Provide an explanation and justific for the final three dished related to: Ingredients, processes, technical skil
en or electronic portfolio including photographic ce. Photographic evidence of the three final dishes e included. The report will be no more than es of A4 or A3 equivalent.	Research - must be relevant and related to the; life stage, dietary	Research - must be relevant and related to the; life stage, dietary	nutrition, food provenance, cooking methods, portion size. A time plan will be produced demor
od Preparation tasks will be released in November final year of assessment.	group or culinary tradition. Identify a range of	Food safety must be demonstrated - storage, preparation and cooking.	dovetailing of different processes. Demonstrate appropriate use of 3 he
od Preparation task is marked out of 70 and this will 6 of the final GCSE grade.	dishes - annotate images that relate to the	Identify technical skills -	dovetail tasks to prepare, cook and p the final dishes.
acher will be marking against the following five criteria:	brief.	this must be done for each dish.	Do not repeat any dishes from the pr skills demonstration.
tion A: Researching the task: 6 marks	Select and justify -	Photographic evidence is	
tion B: Demonstrating technical skills: 18 marks tion C: Planning for the final menu: 8 marks	select a range of	also required.	
tion D: Making the final dishes: 30 marks	technical skills to be		
tion E: Analysis and evaluation: 8 marks.	used when making	Making	g final dishes - 30 Marks
70 marks.	different dishes. You must be able to explain	3 hours to prepare, cook an Select appropriate equipment	
2 – Food Preparation Task - Key Terms	why the skills chosen are relevant to the task.	Knowledge and application	
– a selection of dishes. tage – phases of development that	Research analysis -	Selection, knowledge and u dishes.	se of ingredients when producing different
e go through during their life, such as	summary of the task.	Food Preparatio	on task checklist
cy, childhood, adolescence (teenagers),		Is the research u	well explained and related to the task?
hood and the elderly	Analyse and Evaluate ((8 Marks)	

- Is there evidence of a range of technical skills when making?
- Was the practical assessment well planned and the time plan used?
- Was the level of organisation/food safety in practical lessons good?
- Were the dishes finished to a high standard?
- Is the practical work independently produced?
- Is there good evidence of analysis and evaluation when carrying out sensory analysis?
- Is there good understanding of nutrition and costing?

NEA:

The prac 20 hours the three

A written evidence must be 20 sides

The Food of the fin

The Food be 35%

Your teac

- Section
- Section
- Section
- Section
- Section

Total: 70

NEA2

Menu -Life sta people infancy adulthood and the elderly.

Culinary tradition - ingredients or foods that are associated with a particular country or region.

Time plan - a step-by-step plan to follow when making the final dishes. **Dovetail** - to fit together a variety of different stages into a plan (e.g. different stages of making different recipes).

Analyse and Evaluate (8 Marks)

Carry out sensory evaluation and record results for all dishes including final menu.

Final dishes - carry out and record nutritional analysis, costing and identify improvements..

nnical skills. cooking d demonstrating esses. se of 3 hours to ook and present

- 8 Marks

justification

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Written Examination

How the written exam is organised

At the end of the GCSE Food Preparation and Nutrition course you will take a written examination that lasts for 1 hour and 45 minutes. It is designed to give you the opportunity to:

- demonstrate your knowledge and understanding of nutrition, food, cooking and preparation
- apply your knowledge and understanding of nutrition, food, cooking and preparation
- analyse and evaluate different aspects of nutrition, food, cooking and preparation including food you and others have made.

The examination is divided into two sections:

- Section A: This is worth 20 marks. It consists of 20 multiple-choice questions from different sections of the course.
- Section B: This is worth 80 marks. It consists of 5 questions of different styles from different sections of the course.

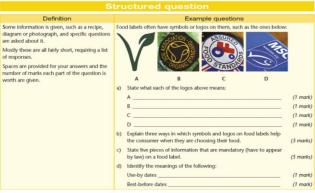
of responses.

worth are given.

All of the examination questions must be answered.

Command words	A piece of data is given and specific questions about it,
Analyse	extra questions around the is about.
Comment	
Compare	
Consider	
Contrast	
Define	
Describe	
scuss	
Evaluate	
Examine	
Explain	
dentify	
Illustrate	
ustify	
Outline	
State	
Suggest	
Summarise	

ion		Example questions	
nd you are asked t, often with some	Typical values	Per 45g serving with 125ml semi-skimmed milk	Per 100g (cereal only)
e topic that the data	Energy	918kJ	1442kJ
		217kcal	340kcal
	Protein	9.6g	11.6g
	Carbohydrate	37.5g	67.8g
	of which: sugars	6.3g	0.9g
	Fat of which: saturates	3.2g	2.5g
		1.4g	0.5g
	Fibre	5.3g	11.8g
	Salt	0.2g	Trace
	cereal: a) How many kcal w b) What % of prote c) How many g of f g	nutritional information about a whol will 50g of cereal only provide? in does the cereal only provide? at will a serving of the cereal with milk j re sugar in the 45g serving of cereal wit he cereal only?	kcal (1 mark, % (1 mark, provide? (1 mark,
	 Suggest two oth to increase its nu 	er foods that could be served with the c tritional value?	ereal and milk (2 marks)



Nutrients - protein / fat / carbohydrates / vitamins / minerals / water. Nutritional needs & health - making informed choices / energy needs / nutritional analysis / diet. nutrition & health Cooking of food & heat transfer - why food is cooked / cooking methods / heat transfer Functional & chemical properties of food - proteins / carbohydrates / fats / raising agents Food spoilage & contamination - microorganisms, enzymes & food production / food spoilage / bacterial contamination. Principles of food safety - buying, storing, preparing, cooking & serving food. Factors affecting food choice - food choices / food labelling / marketing influences. British and international cuisine. Sensorv evaluation.

What do you need to revise?

Environmental impact & sustainability - food sources / the environment / sustainability of food

Processing & production - food production / technological developments.

Free response question Definition Example question A question is given about a specific topic and it is up to you to plan how Tooth decay is a serious problem, especially for children you are going to answer it. The command words that are typically used Discuss the causes and consequences of this diet-related for this type of question include 'explain', 'describe', 'discuss', 'comment', disease and what can be done to prevent it. (12 marks) 'consider', 'analyse' or 'evaluate' Answering a free response, open-ended question Free response questions are often worth quite a lot of marks, so it is important that you plan your answer carefully and don't wander off the topic or keep repeating the information you give. Marks for examination questions are awarded using a mark scheme, at three different levels of response (how well the student answers the question) high level of response intermediate (middle/average) level of response low level of response. Below you will find example answers for the tooth decay question given above. Take a look at AQA's mark scheme and see how marks are awarded. Decide which of the following you think is the best answer and why. Response A



PRODUCTION ROLES

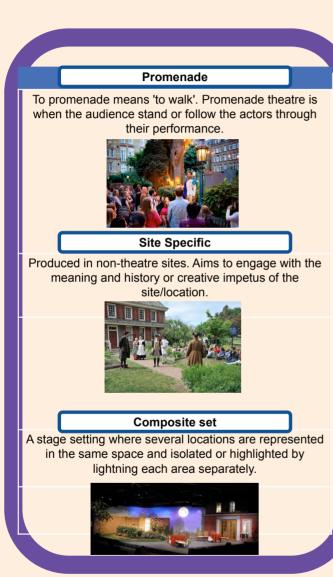
	Design roles
Key Word	Definition
Costume	The person that decides and imagines the costumes worn by characters in the play
Hair & Make up	The person that decides and imagines the hair and makeup for the characters in the play
Lighting	The person that decides what lighting the play needs to show the correct meaning
Set	Decides what scenery and backdrops will feature on the stage
Sound	Responsible for everything related to sound for a given production. This includes pre-recorded music, sound effects, live voices, musical instruments.
C	Colour connotations
Red	Passion, Love, Anger, Hate
Orange	Energy, Happiness, Vitality.
Yellow	Happiness, Hope, Deceit, Sun
Green	New Beginnings, Abundance, Nature, Jealousy.
Blue	Calm, Responsible, Sadness
Purple	Creativity, Royalty, Wealth.
Black	Mystery, Elegance, Evil, Death
Gray	Moody, Conservative, Formality

theatre				
	Set			
Key Word	Definition			
Cloth	A Backcloth/Backdrop hangs at the rear of a scene. A Star Cloth has lamps sewn through it which gives a magical starry sky effect.			
Flat	A lightweight timber frame covered with scenic canvas, or plywood. Flats are used for easy-to-move backdrop			
Gauze	Becomes transparent when the scene behind it is lit.			
Ground plan	A scaled plan (overhead) view of the theatre stage area or of a set design			
Aodelbox	A box representing the walls of a theatre space in which cardboard scale models can be placed by the set designer.			
Prop	(Properties) Items large and small which cannot be classified as scenery, electrics or wardrobe. Eg a briefcase, bag of sweets, a walking stick etc			

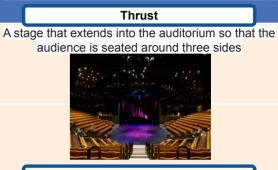
	Lighting		
Key Word	Definition		
Gobo	A thin metal plate with specific shapes cut out to produce a design which can then be projected by a spotlight.		
Backlit	Light coming from upstage, behind scenery or actors, to sculpt and separate them from the background.		
Blackout	The act of turning off (or fading out) stage lighting.		
Gel	The coloured 'filters' placed in front of theatre lights to colour the beam.		
Flood	A lantern that produces a broad spread of light across the stage		
Spotlight	A lantern projecting a narrow, intense beam of light directly on to a place or person		
Cross fade	Bringing another lighting state up to completely replace the current lighting state.		
	Sound		
Live	Live sound/music. Eg orchestra, band etc		
Pre recorded	Sound that has been prepared before the performance		
Sound effects Sounds used to enhance the perfor or work with the performance. Eg C playing to communicate the scene i outside			



THEATRE STAGES







Traverse

The acting area is down the middle of the space, like a catwalk. The audience sits facing the acting area from two sides.



Black Box

A simple, open space consisting of four walls that are all painted black. It is a bare room with a movable seating area, a movable stage, and a flexible lighting system.





EVALUATING THEATRE

Characterisation Skills				
Key Word Definition				
Character	The role the actor plays			
Body Language	How you communicate your character's emotions through the use of your body			
Character Intention	What you want the audience to think or feel about your character			
Facial Expressions	How you communicate your character's emotion using your face			
Gestures	Movements of a particular body part, often the hand, to display meaning			
Physicality	How actors use their facial expressions, body language, walk amd stanze to show emotion, characteristics and age of their character			
Red cross	An actor facing forward so the audience can see their facial expression and body language			
Proxemics	The distance between the actor & actor, actor & audience or actor and object and what that communicates			
Staying in role	Staying in role for the whole performance			
Corpsing	Laughing, talking or breaking role when performing			

theatre					
Char	acterisation Skills				
Key Word	Definition				
Vocal skills	The way you use your voice to communicate your character's emotions.				
Accent	The way you speak based on where you're from e.g. Scouse accent from Liverpool				
Articulation	Clear and precise speech ensuring letters are clear				
Projection	To speak loudly and clearly without shouting				
Pace	The speed at which you talk e.g rushing and speaking quickly if you character is excited or scared				
Volume	How loudly or quietly you speak				

	Written Structure		
Key Word	y Word Definition		
Point	What was done?		
	(Example of what happened in the moment)		
Evidence	How was it done?		
	(What skills & techniques were used?)		
	Why was it done like that?		
	(Justify & analyse your choices)		
Evaluate	What was successful and why?		
	(Reflect on the success of this moment)		
	How could it be improved and why?		
	(Give a suggestion of improvement. Justify your answer)		
Audience	What was the impact on the audience?		
	(What was your intention? How did the audience react?)		



KNOWLEDGE

YEAR 11

ENGLISH LITERATURE

A Christmas Carol

St	GCSE English Literature Paper 1 Section B: 19th Century novel	'A Christmas Carol' by Charles Dickens			
av e	Plot	Characters and key quotations			
1	Scrooge is at work. Despite the Christmas Eve cold, he refuses to spend money on coals for the fire. Scrooge turns down his nephew, Fred's, invitation to his Christmas party. Scrooge is visited by the ghost of his dead partner, Jacob Marley.	Ebenezer Scrooge: 1. "he was a tight-fisted hand at the grindstone,a squeezing, wrenching, grasping, scraping, clutching covetous old sinner! Hard and sharp as flint, from which no steel had ever struck out generous fire; secret, and self-contained, and solitary as an oyster."			
2	He wakes and the Ghost of Christmas Past takes him on a journey. Invisible to those he watches, Scrooge revisits his childhood school days and his apprenticeship with a jolly merchant named Fezziwig, and his engagement to Belle.	2. "The cold within him froze his old features He carried his own low temperature always about with him; he iced his office in the dog-days; and didn't thaw it one degree at Christmas." Jacob Marley: "The chain he drew was clasped about his middle. It was long, and wound about him like a tail; and it was made			
3	The Ghost of Christmas Present shows Scrooge Christmas as it will happen that year. Scrooge watches the Cratchit family eat a tiny meal in their little home. He sees Bob Cratchit's crippled son, Tiny Tim, whose kindness and humility warm Scrooge's heart.	of cash-boxes, keys, padlocks, ledgers, deeds, and heavy purses wrought in steel." Fred: Scrooge's nephew 1. "He had so heated himself with rapid walking in the fog and frost that he was all in a glow; Ghost of Christmas Past: A strange combination of young and old, wearing white robes and looking like a candle.			
4	Through a sequence of scenes linked to an unnamed man's death, the Ghost of Christmas Yet to Come shows Scrooge that nobody mourns his death and the only emotion felt is one of happiness and relief. Scrooge, is keen to learn the lesson.	 looking like a candle. 1. "It was a strange figure-like a child: yet not so like a child as like an old man" Ghost of Christmas Present: A portly, jovial gentleman surrounded by a warm glow. He shows Scrooge how things really are. 1. "Its dark brown curls were long and free; free as its genial face, its sparkling eye, its cheery voice, 			
5	Scrooge rushes out onto the street hoping to share his newfound Christmas spirit. He sends a turkey to the Cratchit house and goes to Fred's party. As the years go by, he continues to celebrate Christmas with all his heart. He treats Tiny Tim as if he were his own child and gives gifts to the poor.	unconstrained demeanour and its joyful air." Ghost of Christmas Yet to Come 1. "Still the Ghost pointed with an unmoved finger to the head." 2. "The Phantom slowly, gravely, silently approached." Fezziwig: Scrooge's ex-employer who is fair to all his employees and knows the true meaning of			
Con	text	Christmas. 1. "Old Fezziwigrubbed his hands; adjusted his capacious waistcoat; laughed all over himself, from			
 1) 1824 – Dickens' father is sent to jail for debt and Dickens has to give up his education until his father inherits some money and he goes to a private school. 2) Dickens was put to work in a warehouse. He had experience of poverty. 3) 1834 – Poor Law Amendment Act, which meant that the rich no longer had to pay taxes in order to help the poor. Workhouses were created which poor people would have to live and work in. 4) 1842 Report on Child Labour .The report's findings shocked society and led to safety legislation in mines and factories. 		 his shoes to his organ of benevolence; and called out in a comfortable, oily, rich, fat, jovial voice: Mrs Cratchit: Bob's wife who is critical of Scrooge and how poorly he pays her husband. 1. "the founder of the feat indeed cried Mrs Cratchit reddeningI'd give him a piece of my mind to feast upon" 2. "an odious, stingy, hard, unfeeling man as Mr Scrooge" Bob Cratchit: Scrooge's clerk who doesn't have much money. He loves his family and is happ and morally upright. 1. "the Founder of the Feast" 2. "in came little Bob, the fatherand his threadbare clothe darned up and brushedand Tiny Ti upon his shoulder." Tiny Tim: Bob's ill son whose story plays a part in inspiring Scrooge's transformation. 1. "Alas for Tiny Tim, he bore a little crutch." 2. "God bless us every one!" 3. "As good as gold." 			

Anthology Poetry

War Photographer

Content/summary

- Duffy was inspired to write this poem by her friendship with a war photographer. She was especially intrigued by the peculiar challenge faced by these people whose job requires them to record terrible, horrific events without being able to directly help their subjects.
- Duffy perhaps shares an affinity with these photojournalists while they use the medium of photography to convey certain truths about the human condition, she uses words and language to do the same job. Throughout the poem, Duffy provokes us to consider our own response when confronted with the photographs that we regularly see in our newspaper supplements, and why so many of us have become desensitised to these images.
- By viewing this issue from the perspective of the photographer, she also reveals the difficulties of such an occupation. By the end of the poem, it is clear her subject straddles two vastly different worlds yet increasingly feels he belongs to neither.

Bayonet Charge

Content/summary

Bayonet Charge by Ted Hughes describes the few desperate moments of a soldier's charge against a defended position, dramatising the feelings of fear, dislocation and confusion.

While the soldier and the conflict are only described in general terms, meaning that the experience is universalised, Hughes may have been imagining his father's experience as one of the soldiers in the First World War, whose charges 'over the top' of the trenches have passed into legend.

Remains

Content/summary

- The poem is told anecdotally and begins with 'On another occasion', implying that this account is not the only unpleasant account the soldier has in his memory. He tells how he and 'somebody else and somebody else' opened fire on a looter who may or may not have been armed. They shot him dead and one of them put the man's 'guts back into his body' before he's carted away.
- Later the soldier thinks about the shooting every time he walks down the street. Then later again, when he returns home he is still haunted by the thought of what he has done. He tries drink and drugs to drown out the memory, but they do not work. The line 'he's here in my head when I close my eyes' indicates this.
- The final lines show that the memory was not left behind in the place of war in a distant land, but is with the speaker all the time. He feels as though he will always have blood on his hands.

Exposure

Content/summary

- Wilfred Owen's poem focuses on the misery felt by World War One soldiers waiting overnight in the trenches. Although nothing is happening and there is no fighting, there is still danger because they are exposed to the extreme cold and their wait through the night is terrifying. The eight **stanzas** are gripping because the speaker describes the trauma of living and struggling in such poor conditions. There is a sense of despair and of lost hope.
- The immediate and repeated use of the **pronouns** 'our' and 'we' show that Owen is describing a situation he was part of. The individual is sharing in the collective suffering and horror of the war. The poet has a sense of injustice about the way the soldiers are being treated. If being 'exposed' to gunfire does not kill them, then exposure to the brutal weather conditions might do. Alongside the more obvious meanings of the title, there is also the idea that Owen has set out to expose the conditions the soldiers have experienced to the world.



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YEAR 11

Paper	2 Q5:	Article	Writing
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Before you start writing think about: PAF Purpose – what are you trying to achieve? Audience – who are you writing for? Format – what are you being asked to write? <u>Vocabulary and tone need to be precisely</u> <u>match to task:</u> Modal verbs are used for advice: can, could, may, might, must, ought to, should, shall, will, would. Informative/explanatory: after all; as can be	Connectives/Discourse MarkersPositionAt the startFirstlySecondlyThirdlyNextMeanwhileSubsequentlyFinallyIn conclusionEmphasisImportantlySignificantly In particularAdditionFurthermoreAdditionallyIn additionAs well asContrastAlthoughWhereas	Steps to success Think about the PAF Open with a welcome/greeting – e.g. 'Good afternoon ladies and gentlemen' or 'Fellow classmates' Outline what the speech will be about: 'I will talk to you about Make 3/4 key points and expand on them. Conclusion to summarise ideas End acknowledging the audience: 'Thank you for listening'. CAFOREST techniques	Writer's Methods Command Alliteration & anecdotes Facts Opinions Repetition, rhetorical questions, reader (direct address) Emotive language and exaggeration Statistics Threes (rule of three)	
expected; generally; namely; naturally; obviously. Opinionated vocabulary: without a doubt; the fact is; clearly; it is vital that. Anecdotal vocabulary: As a matter of fact; one incident that can be recalled; a great illustration of this was.	The structure of the form, its sentencecarefully planned and withParts of a paragraph:Topic sentence – tells the reader the mainbe about.Supporting sentence 1 –gives specific details relating to the main inSupporting sentence 2 –gives another set of specific details supportSupporting sentence 2 –gives another set of specific details supportSupporting sentence 3 –gives another set of specific details supportConcluding sentence –refers to the topic sentence and sums up the	ritten for effect. In idea of what the paragraph will dea. In the main idea.	Sentence stems to learn: -Research, funded by, has revealed that -Consequently, many people have found that -Differing variables must be considered -Perhaps it might be fair to -Often the challenges are numerous -Every year hundreds -Over recent decades many experts have -A reasonable conclusion might be -Critically important is -Despite definitions varying, it is possible to	



Descriptive Writing Q5

Purpose: Reason you are writing -You are writing to describe, entertain and impress. -You want to show how impressively you can describe the picture in front of you and show the examiner you can create imagery in your writing.

Timings			
Planning Writing description		5 minutes	
		30 minutes	
Proof rea	ding	5 minutes to proof-read	
Assessment Objectives		S	
AO5	Communica the descript	ation and organisation. The structure of ion	
A06 Technical accura ambitious vocab		ccuracy-punctuation, sentence structure, ocabulary	
Techniques to use			
		Try to use figures of speech to describe. Tr etc. Be more creative	
Be like a camera Star		Start with a long shot of whole picture	

Vocabulary:

What vocabulary should I try to use?

-Instead of 'dark' try... dim, unlit, black, inky, unilluminated, the abyss Instead of 'bright' try... dazzling, beaming, radiant, vivid, blazing

-Instead of 'happy' try... glad, joyous, contented, cheerful, blissful, euphoric

- Instead of 'sad' try: miserable, melancholic, despairing, dismal, forlorn, despondent Instead of 'eerie' try... unnerving, sinister, abnormal, strange, unsettling

-Instead of 'mysterious' try... secretive, enigmatic, peculiar, curious, inexplicable



Vary Your Sentences: Simple = one verb / very short - try a cluster of three for pace or tension! Compound = and/but/or Complex = subordination.commas or semicolons. Use plenty of punctuation for pace and to add meaning.

Techniques to use:

and darkness fell.

shirt as I ran through.

Irksome, Serpentine.

streaming from my lip

Declarative A statement

story.

Simile- Example: He was as timid as an urban fox.

Pathetic Fallacy- Example: The sky became cloudy

Personification-Example: The thorns gripped my

Impressive Vocabulary-Example: Guile, Radiant,

Noun, Adjective, Noun- Example: Blood red shoes

Sensory Language- Example: I could taste blood

Extended Metaphor When a writer exploits a single

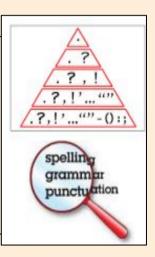
metaphor or analogy at length throughout a poem or

Juxtaposition The fact of two things being placed

Metaphor- Example: He was a night owl.

Alliteration- Example: Colin can't catch!

closely together with contrasting effect



		senses!		
II Try to use figures of speech to describe. Try to etc. Be more creative		o use expand	ed noun phrases,	metaphors
era	Start with a long shot of whole picture			

Zoom in on one are of the image Track across the image and zoom in on another area Be in the image Write in 1st person as if you are something in the image. Show us the image from your perspective.

YEAR 11

ENGLISH LANGUAGE



Component 3

	PROMOTION			FINANCING AN ENTERPRISE		
1.		Build positive associations with the Enterprise, encourage	1.	CAPITAL	Involves the purchase of fixed assets such as	
	PROMOTION	customers to purchase products.		EXPENDITURE	machinery or buildings.	
2.	MEDIA	A general term referring to a variety of different forms of				
		communication including television, newspapers,	3.	REVENUE	Involves day-to-day expenditure of the business	
		magazines, websites & the internet.	-	EXPENDITURE	including inventories, utility bills, rent & wages.	
3.		The methods used to communicate with customers.				
4.		The range of techniques used to communicate with	4.	INTERNAL	Finance obtained from within the business	
		customers.	-	SOURCES OF	including retained profit & selling assets.	
5.		The features and benefits of the product, the range of		FINANCE		
	MESSAGE	products the business offers.	5.	RETAINED	Are profits retained within the business which	
6.		Inform, remind & persuade customers.		PROFIT	can then finance business growth. There is no	
	AL BENEFITS				interest payable as with loans & the business	
		ADVERTISING			has power over how this money should be	
7	ADVERTISING	Paying for space in media such as TV, magazines or on the			spent.	
·		internet.	6.	SALE OF	Selling unused assets to improve cash flow.	
9	METHODS OF	Moving images, print, ambient, digital, audio.		ASSETS		
-	ADVERTISING		7.	EXTERNAL	Finance obtained from outside the business	
		SOURCES OF REVENUE & COSTS	ſ I	SOURCES OF	including bank loans, leasing equipment, hire	
1.	REVENUE	Income earned through product or service sales. It is		FINANCE	purchase, government grants, venture capital &	
		calculated by Price X Quantity Sold .			peer to peer lending.	
2.	OTHER	Include interest paid on savings accounts, investment	8.	BANK LOAN	An agreed amount of money that will be paid	
	SOURCES OF	income from shares, rental income from renting out			back over a period of time.	
	REVENUE	property, selling assets such as vehicles or machinery.	9.	LEASING	Enables a business to use expensive assets,	
3.		Financial outgoings that a business faces.		EQUIPMENT	such as machinery or vehicles without having to	
4.		These are costs incurred when setting up a new			buy them.	
	COSTS	business. Examples could include furnishings, logo	10	HIRE	an agreement that allows a business to	
		design and equipment purchase.	•	PURCHASE	purchase equipment or machinery in	
5.	RUNNING	These are ongoing costs that the business faces on a			instalments. When the final payment is made	
	COSTS	daily basis. Examples include bills, wages & ingredients.			the item is then owned by the business.	
6.	FIXED COSTS	Costs that remain the same no matter how many	11.		payments from local or national governments	
		products the business provides. Examples include rent,		GRANTS	which incentivise businesses to set up in an	
		insurance payments & salaries.			area of high unemployment.	
7.		These costs rise as output increases. This includes the	12	VENTURE	An individual or enterprise that seeks to invest in	
	COSTS	cost of stock and wages.	•	CAPITAL	new business ventures.	
8.	TOTAL COSTS		13	PEER TO PEER	a portal which allows people to invest in	
		costs.	•	LENDING	business start-ups through the internet.	
		Total costs = Fixed costs + Variable costs				

УЕАР II ТЕРМ I



YEAR 11 TERM 2

Component 2

AND OR A	 Generating ideas Mind mapping / thought showering new ideas [innovation] Look at a problem which needs solving – how can a new enter-prise solve this? Importing an idea from abroad that works in another country [goods or services in a new market] Adapting a current product or service [goods or services in a new context]. Looking at what skills and attributes you have and how you, as an entrepreneur, can use them to build a new enterprise. There also needs to be a gap in the market (a need for the product or service) otherwise it is unlikely the enterprise will be a great success. 	Why should enterprises keep in touch with customers? -To keep them informed -In an attempt to in-crease sales Promotion - The publicizing of a product, organization, or venture so as to increase sales or public awareness. How can enterprises keep in touch with customers? Direct marketing - The business of selling products or services directly to the public • text • Emails • Letters Viral Marketing - consumers are encouraged to share information about a company's goods or services via the internet.		
	Financial AimsPlans that involve money based tar-gets are financial aims because they involve the enterprises finances.Examples are 'to make a profit' and to 'achieve break even'. All entrepreneurs need to know what goods and services they're going to sell and be sure they're going to meet their customers wants and needs (market research is a must here!)Non-Financial AimsThese are not linked money based targets, but are linked to other aspects of the enterprise such as strengthening brand image, building relationships with customers and suppliers or operating ethically.	 billboards Web banners Radio TV Point of sale Via third party When creating promotional material it is key that you consider: How appropriate the content of the promotion is: Is it accurate? Is it complete? Is it clear? How appropriate the appearance of the promotion is: Is the colour appropriate? Do the visual add to or hinder the message? Are the images supportive? Is the text easy to read? Engaging, involving and catering for your audiences interests Firstly you need to should consider your audiences interests Relate what you're doing to them Example: Cupcakes enterprise – do they have small children? Also consider asking yes/no questions, ask them to imagine something, use humour or give them a short exercise to complete to engage them. 		
	 Professionalism in a pitch 1. Greetings Introduce yourself and shake the hands of the entrepreneurs. Be polite and courteous throughout the pitch 2. Be Positive. You should be enthusiastic and excited 3. Rehearse your pitch! Remember the key points you want to get across 			

Natural Hazards

	Types of Plate	Margins	Case Study: Typhoon Haiyan 2013				
		Destructive Plate Margin /hen the denser plate subducts beneath the other,		Causes Started as a tropical depression on 2 rd November 2013 and gained strength.		What is Climate Change? Climate change is a large-scale, long-term shift in the planet's	
	friction causes it to melt and become molten magma . The magma forces its ways up to the surface to form a volcano. This margin is also responsible for devastating earthquakes .		Became a Category 5 "super typhoon" and made landfall on the Pacific islands of the Philippines.		weather patterns or average temperatures. Earth has had tropical climates and ice ages many times in its 4.5 billion years.		
					Recent Evidence for climate change		
	Constructive Plate Margin Here two plates are moving apart causing new		- Almost 6,500 deaths. - 130,000 homes destroyed. - Water and sewage	- The UN raised £190m in aid. - USA & UK sent helicopter carrier ships deliver aid	Global tempera	ture	Average global temperatures have increased by more than 0.6°C since 1950 .
······	magma to reach the surface through the gap. Volcanoes formed along this crack cause a submarine				Ice shee glaciers		Many of the world's glaciers and ice sheets are melting.
	Ridge.	Conservative Plate Margin		remote areas. - Education on	Sea Leve Change	el	Average global sea level has risen by 10-20cms in the past 100 years. This is due to
uuuuu				preparedness.			ice melting and thermal expansion.
s	slide past each other in oppo	A conservative plate boundary occurs where plates slide past each other in opposite directions, or in the		Evidence of natural change			
	same direction but at different speeds. This is responsible for earthquakes such as the ones		Orbital Changes	hanges The Earth wobbles and tilts as it orbits.			
		happening along the San Andreas Fault, USA. LIC -CS: Nepal (2015)		They increase the amount of energy Earth receives from the Sun.			
	LIC -CS: Nep			Volcanoes release large amounts of dust containing gases. These can block sunlight.			
	CausesOn 25 April 2015 a 7.8 earthquake struck Nepal inAsia. The focus was only eight kilometres deep andthe epicentre was just 60 kilometres north-west fromthe capital Kathmandu.EffectsManagement		HIC - CS: Chile (2010)				
			Causes The magnitude 8.8 earthquake occurred on 27 February 2010, at 03:34 a.m. local time. The epicentre was located at just offshore of Chile at a depth of about 35 km. The effects were strongly felt in the cities of Conception				
	8,632 people died and At the tim	At the time Nepal did not have a robust way	and Chillan, both about (Argentina), and laste		ent was felt	as far a	away as Southern Peru, Bolivia and Buenos Aires
	made it the worst earthquake in Nepal in more than 80 years. In addition to this, hundreds of thousands of people were made homeless with entire villages flattened.	of dealing with earthquakes. The Government are also trying to build homes and structures which could withstand earthquakes.	Alongside this, 220,00 destroyed,, as well as and 56 hospitals.	quake was US\$30 billior 00 homes were complete 4500 schools, 53 shippi 00 people were injured a al affected.	ely ng ports	Swift Swift highw capita	r and water restored to 90% of homes within 10

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KNOWLEDGE

Changing Economic World

	Development is an improvement in living standards through better use of resources.		CS: Reducing the Deve	UK in the wider world		
			Creating a Positive tourist economy multiplier effect		- 5th largest GDP in the world - in 2016, the UK was the tenth largest goods	
	Economic	Economic growth through levels of industrialisation and use of technology.	-In 2015, 2.12 million visited. -Tourism contributes 27% of GDP and will increase to 38% by 2025 .	-Jobs from tourism have meant more money has been spent in shops and other businesses. -Government has invested in	exporter in the world - Changing political importance as a result of Brexit	
	Social	Improvement in people's standard of	-130,000 jobs rely on tourism. -Global recession 2008 caused a	infrastructure to support tourism.	Measuring development Economic indicators	
		living. For example, clean water.	decline in tourism. Now tourism is beginning to recover.	- New sewage treatment plants have reduced pollution.	Employment	The proportion of the
	Environmental	Advances in the	Reducing the Globa	type	population working in primary, secondary, tertiary	
		management and protection of the	Microfinance Loans This involves people in LICs receiving smalls loans from traditional banks. + Loans enable people to begin their	<u>Foreign-direct investment</u> This is when one country buys	Gross	and quaternary industries.
		environment.		property or infrastructure in another country. + Leads to better access to finance,	Domestic Product per capita	This is the total value of goods and services produced in a country per person, per year.
	Resources - Fuel sources such as oil. - Minerals and metals for fuel. - Availability for timber. - Access to safe water.	Natural Hazards - Risk of tectonic hazards Benefits from volcanic material and floodwater Frequent hazards undermines redevelopment	own businesses - Its not clear they can reduce poverty at a large scale.	technology & expertise. - Investment can come with strings attached that country's will need to comply with.	Gross National Income per capita	An average of gross national income per person, per year in US dollars.
			<u>Aid</u> This is given by one country to another as money or resources. + Improve literacy rates, building dams, improving agriculture.	<u>Debt Relief</u> This is when a country's debt is	Social indicators	
				cancelled or interest rates are lowered. + Means more money can be spent on development.	Infant mortality	The number of children who die before reaching 1 per 1000 babies born.
	Climate	redevelopment. Location/Terrain - Landlocked	- Can be wasted by corrupt governments or they can become too reliant on aid.	 Locals might not always get a say. Some aid can be tied under conditio from donor country. 	Literacy rate	The percentage of population over the age of 15 who can read and write.
	 rainfall to benefit farming. Extreme climates limit industry and 	 Countries may find trade difficulties. Mountainous terrain makes farming difficult. Scenery attracts tourists. 	Fair tradeThis is a movement where farmersget a fair price for the goodsproduced.+ Paid fairly so they can developschools & health centresOnly a tiny proportion of the extramoney reaches producers.	<u>Technology</u> Includes tools, machines and affordable equipment that improve	Life expectancy	The average lifespan of someone born in that country.
				quality of life. + Renewable energy is less	Mixed indicators	
	affects health. - Climate can attract tourists.			expensive and polluting. - Requires initial investment and skills in operating technology	Human Development Index (HDI)	A number that uses life expectancy, education level and income per person.

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YEAR 11 TERM 2

GEOGRAPHY



The Living World

What is a	an Ecosystem?	Adaptations to the rainforest				
	osystem is a system in which organisms with each other and with their environment.	Orangutans	Large arms to swing & support in the tree canopy. Allows heavy rain to run off leaves easily .			
Ecosyste	em's Components	Drip Tips				
Abioti c	These are non-living , such as air, water, heat and rock.	Lianas	Climbs trees to reach sunlight at canopy.			
Biotic			Layers of the Rainforest			
	insects, and animals.	Emergent	Highest layer with trees reaching 50 metres.			
Fauna	Animal life in a particular region.	Canopy	80% of life is found here as It receives			
Flora	Plant life in a particular region.	Canopy	most of the sunlight and rainfall.			
	Issues related to biodiversity		Consists of trees that reach 20 metres high.			
Why are	there high rates of biodiversity?	Shrub Layer	Lowest layer with small trees that have adapted to living in the shade.			
	n and wet climate encourages a wide					
	 range of vegetation to grow. There is rapid recycling of nutrients to speed plant growth. Most of the rainforest is untouched. 		Impacts of deforestation			
			Economic development			
		 + Mining, farming and logging creates employment and tax income for government. + Products such as palm oil provide valuable income for countries. - The loss of biodiversity will reduce tourism. 				
	ues with biodiversity decline					
of oth	tone species (a species that are important ner species) are extremely important in the					
	prest ecosystem. Humans are threatening vital components.	Soil erosion				
Decli	ne in species could cause tribes being	- Once the land is exposed by deforestation, the soil is				
	le to survive. s & animals may become extinct.	more vulnerable to rain.				
	nedical plants may become extinct.	- With no roots to bind soil together, soil can easily wash away.				
Trop	Tropical Rainforests: Case Study Malaysia		Climate Change			
Malaysi	a is a LIC country is south-east Asia. 67% aysia is a tropical rainforest with 18% of it not being interfered with.	-Trees are carbon 'sinks'. With greater deforestation comes more greenhouse emissions in the atmosphere. -When trees are burnt, they release more carbon in the atmosphere. This will enhance the greenhouse effect.				

The Thar Desert is located on the border between India and Pakistan in Southern Asia. With India soon becoming the most populated country in the world in the next five years. With this, more people will plan to live in the desert.						
Olimate of						
Climate of	Hot Deserts					
 It might Tempe at night In winter 	at night due to little cloud cover (5 °C).					
Major cha	racteristics of hot deserts					
 Aridity – hot deserts are extremely dry, with annual rainfall below 250 mm. Heat – hot deserts rise over 40 degrees. Landscapes – Some places have dunes, but most are rocky with thorny bushes. 						
Adaptations to the desert						
Cactus	Large roots to absorb water soon after rainfall.					

- Needles instead of leaves to reduce surface area and therefore transpiration.
- Hump for storing fat (NOT water). Camels
 - Wide feet for walking on sand.
 - · Long eyelashes to protect from sand.

Desert Interdependence

Different parts of the hot desert ecosystem are closely linked together and depend on each other, especially in a such a harsh environment.

and Pal becoming the next fiv es to reach sunlight at canopy. Climate of

Hot Desert: Case Study Thar Desert - India/Pakistan

- It might of
- Tempera at night
- In winter • frost and

Major chara

- Aridity rainfall b
- Heat h
- Landsca are rock

ng creates employment and Adaptations provide valuable income for Cactus

Factors that affect health and wellbeing

Learning outcome A: Explore how factors can affect an individual's health and wellbeing positively or negatively. 1.Physical health comes from... 3. Emotional wellbeing comes from... Health and Wellbeing • Feeling safe and secure • Healthy body systems **Regular** exercise Being able to express all emotions Definition of health and wellbeing: a A healthy diet Knowing how to deal with negative emotions combination of physical health and social and emotional wellbeing, and Regular sleep pattern • Being respected by others • not just the absence of disease or Good personal hygiene Having positive self-concept illness. A HOLISTIC **APPROACH** 2.Intellectual wellbeing comes from keeping Physical Factors that can have the brain healthy and active, through positive or negative effects on health 4.Social wellbeing comes from a person's opportunities to... and wellbeing: relationships with others... Concentrate • Friendships and other positive social Learn new skills and knowledge Inherited conditions – sickle cell relationships disease, cystic fibrosis Communicate Strong family relationships Physical ill health - cardiovascular Solve problems • Relationships as part of a social group disease, obesity, type 2 diabetes Mental ill health - anxiety, stress **Physical abilities** Social factors that can have positive or Economic factors that can have positive or negative effects on health Sensory impairments negative effects on health and wellbeing: and wellbeing: Supportive and unsupportive **Employment situation** Lifestyle factors that can have relationships with others Financial resources - income, inheritance, savings. positive or negative effects on health Social inclusion and exclusion • and wellbeing: Bullying . Environmental factors that can have positive or negative effects on Discrimination. health and wellbeing: Nutrition • Physical activity Cultural factors that can have positive Housing needs, conditions, location Smoking or negative effects on health and Home environment Alcohol . Exposure to pollution – air, noise and light. wellbeina: Substance misuse • Religion The impact on physical, intellectual, emotional and social health and Gender roles & identity, wellbeing of different types of life event: expectations, sexual orientation Physical events / Relationship changes / Life circumstances. Community participation.

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Interpreting health indicators

Learning outcome B: Explore how physiological indicators are used to measure health and how lifestyle choices determine physical health.

Physiological Data

Pulse - Measures the number of heart contractions in one minute. Blood pressure - Measures the pressure of blood as it circulates in the body. BMI - Indicates proportion of body fat using measurements of a person's height and weight.

Interpretation of physiological data according to published guidelines:

- Resting heart rate (pulse) normal . range 60 to 100 bpm
- Heart rate (pulse) recovery after . exercise - the heart's ability to return to normal levels after physical activity is a good indicator of fitness
- Blood pressure low blood . pressure 90/60mmHg or lower, ideal blood pressure between 90/60mmHg and 120/80mmHg. pre-high between120/80mmHg and 140/90mmHg, high blood pressure 140/90mmHg or higher
- Body mass index (BMI) underweight below 18.5 kg/m2, healthy weight between 18.5 kg/m2 and 24.9 kg/m2, overweight between 25 kg/m2 and 29.9 kg/m2 , obese between 30 kg/m2 and 39.9 kg/m2, severely obese 40 kg/m2 or above.

Interpretation of lifestyle data according to published quidelines:

- Nutrition the Eatwell Guide
- Physical activity UK Chief Medical • Officers' Physical Activity Guidelines
- Smoking UK Chief Medical Officers' • **Smoking Guidelines**
- Alcohol UK Chief Medical Officers' • Alcohol Guidelines
- Substance misuse. .



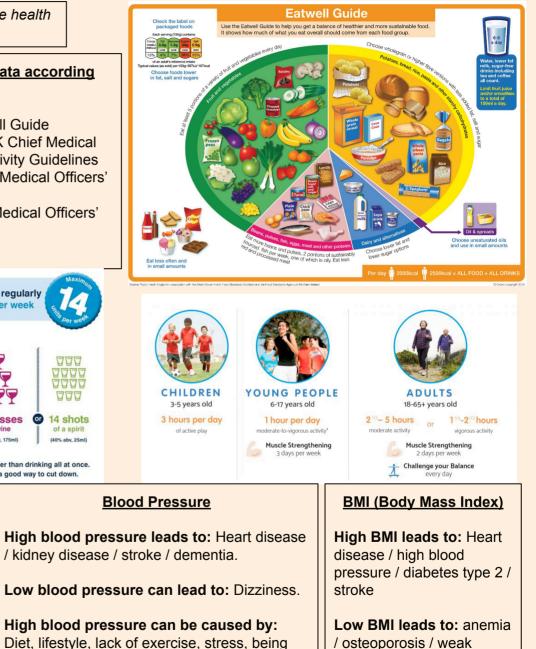
Having several alcohol-free days each week is a good way to cut down.

overweight.

Pulse Rate

High pulse rate leads to: Dizziness / heart attack / stroke / high blood pressure.

Ways to lower pulse rate: Exercise / healthy diet / lower stress levels / stopping smoking.



immune system.

Person-centred approach to improving health and wellbeing

Learning outcome C: Explore the use of the person-centred approach in health and social care settings and explore recommendations and actions that are aimed at improving health and wellbeing, alongside support available for achieving this.

Person-centred approach

- Needs to reduce health risks
- Wishes their preferences and choices
- Circumstances to include age, ability, location, living conditions, support, physical and emotional health.

Importance of a person-centred approach for individuals:

- Makes them more comfortable with recommendations, advice and treatment
- Gives them more confidence in recommendations, advice and treatment
- Ensures their unique and personal needs are met
- Increases the support available to more vulnerable individuals
- Improves their independence
- They are more likely to follow recommendations/actions to improve their health
- They are more motivated to behave in ways that positively benefit their health
- They feel happier and more positive about their health and wellbeing.

Types of Support

- Formal support from professionals, trained volunteers, support groups and charities.
- Informal support from friends, family, neighbours, community and work colleagues.

The benefits of a person-centred approach for health and social care workers and services:

- It improves job satisfaction for health and social care workers
- It saves time for health and social care services
- It saves money for health and social care services
- It reduces complaints about health and social care services and workers.

Recommendations for helping to improve health and wellbeing:

- Improving resting heart rate and recovery rate after exercise
- Improving blood pressure
- Maintaining a healthy weight
- Eating a balanced diet
- Getting enough physical activity
- Quitting smoking
- Sensible alcohol consumption
- Stopping substance misuse.

Barriers to Following Recommendations

Definition of barriers: something unique to the health and social care system that prevents an individual accessing a service.

Potential barriers as appropriate to the individual and the recommendation:

- Physical barriers
- Barriers to people with sensory disability
- Barriers to people with different social and cultural backgrounds
- Barriers to people that speak English as an additional language or those who have language or speech impairments
- Geographical barriers
- Resource barriers for service provider
- Financial barriers.

Obstacles to Following Recommendations

Definition of obstacles: something personal to an individual that blocks a person moving forward or when action is prevented or made difficult.

Potential obstacles as appropriate to the individual and the recommendation:

- Emotional/psychological
- Time constraints
- Availability of resources
- Unachievable targets
- Lack of support.

35 ED C E

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American West

- Ameri	American West							
	1830-51	1851-76	1876-95The government try to exterminate natives.They started by killing off the buffalo in the 1870s and 80s. This made Natives reliant of food provided by the agency.The government then started to shut the reservations forcing natives onto smaller, harsher areas of land. 1879- Exoduster movement- Black Americans moved West to Kansas to escape racism in the Deep South. The journey and conditions were harsh. 1893- Oklahoma land rush- 8 million acres opened up for settlement. This land had been freed up by the Dawes Act that closed reservations in the South.					
The Natives	The Natives were first forced West by the Removal Act - this led to events like the Trail of Tears. Once Natives were on the Great Plains they roamed free and lived a Nomadic lifestyle. They utilised the horse, buffalo and tipi to help them survive.	The Natives moved onto reservations which led to conflict when the US government broke their treaties. The reservations started to destroy their way of life, prohibiting them from living nomadically and forcing them to use the Indian agency.						
People Moving West	 1830s - The Oregon trail was opened and widely used in travelling to the West. They were many problems in moving like those experienced by the Donner Party. 1846/7- Mormon migration led by Brigham to the Great Salt Lake. He came up with many solutions to their problems like the Winter Quarters 1848/9- Gold discovered in California, this led to mass migration and law and order problems 	 1862- Homestead Act- Cheap land was targeted at ex-soldiers in an attempt to force white settlers West. 160 acres could be given out to potential migrants. 1869- Transcontinental Railroad - this helped in the movement of settlers. It also helped by the farmers and cattle ranchers in developing their industries. 1873- Timber Culture act- A further 160 acres was offered to Homesteaders if they planted trees on half of the new land. 						
Cattle Ranching	1850- Cattle ranching starts in Texas. It was stuck and could move North due the Homesteaders and was too far away from markets due to the 'Long Drive'.	 1866 - Goodnight took the industry to Forts in the West 1867- Abilene- First Cowtown 1870- 'Open range' Beef bonanza 	 1881- Ok Corral- Gunfight between cowboys and miners 1880s-Severe Winter-decline in industry 1892- Johnson County War - Conflict between ranchers and Homesteaders 					
US Gov't policy	 1830- Indian Removal Act- Natives forced West onto the Great Plains 1834- Trade and Intercourse Act- Permanent Frontier (Boundary line) 1851- Indian Appropriations Act and the Fort Laramie Treaty (1851) - moved to reservations 	1862- Little Crow's War - Plains War 1864- Sand Creek massacre - Plains War 1866-68- Red Cloud's war - Plains War 1868- Second Fort Laramie Treaty- New Sioux Reservation - led to conflict when gold discovered	 1876- Battle of Little Bighorn- Custer defeated led to 'extermination policies' 1883- Buffalo exterminated 1887- Dawes Act- Shutting reservations 1890- Wounded Knee Massacre- Frontier closed. End of the way of life. 					
Law and Order	Early law enforcement 1830-50 Pinkerton detective agency founded, mining courts and community laws	1850s-1870s Vigilance committees, Marshalls, Sheriffs, Marshalls corruption, gangs.	1880s - onward Many fights between ranchers and homesteaders. Attitudes change after Johnson County War.					

HISTORY

KNOWLEDG ORGANISER

Early Elizabethan England, 1558-1603

Key Topic 1: Early challenges

Early Problems:

- Legitimacy
- Gender
- Religion (Protestant/ Catholics)
- Financial weakness (£300,000 debt)
- Foreign threat (France and Spain both Catholic and powerful)
- Mary Queen of Scots (legitimate catholic heir and Centre of Catholic plots.).

Religious settlement (1559):

The religious settlement was Elizabeth's attempt to try keep a compromise between Catholics and Protestants. She created a new church and created clear guidelines for the new religion. They included:

- The Act of Uniformity: state the appearance of church and services.
- The Act of Supremacy: Elizabeth made Supreme Governor
- Royal Injunctions rules for services

Challenges to Religious Settlement:

Catholic: ¹/₃ Nobility were Catholic with high percentage in the North. They also had backing from abroad and the Pope. Catholics hated the removal of the meaning of mass and the Pope.Many became Recusants holding private services.

Puritans: The Vestment and Crucifix controversies were a threat to Elizabeth as many Bishops threatened to resign if she didn't remove further Catholic parts.

Key Topic 2: 1569-1588 Later challenges

Challenges at home (Catholic plots):

- **Revolt of Northern Earls** (1569-70) Northern Threat
- 1571 Elizabeth excommunicated by the Pope
- **The Ridolfi Plot** (1571): Significant threat from Spain and influence MQoS, Norfolk executed.
- 1574 The **Pope sends Jesuit priests** to England
- **The Throckmorton Plot** (1583) Significant French and Spanish support, continued influence of MQoS.
- **The Babington Plot** (1586): Significant as letters were discovered that led to execution of MQoS in 1587.

Relations with Spain:

- Catholic **Phillip II had supported plots** against Elizabeth
- Catholics in England were turning against Elizabeth with **high levels of Recusants** (secret Mass)
- **Trade rivals** Spanish control of the **Netherlands** led Elizabeth to intervene to protect Dutch Protestants.
- Privateering- The likes of Francis Drake angered Phillip by competing in the 'New World'
- Raid of Cadiz (1587). embarrassed and delayed Phillip

The Armada (1588):

English Victory due to leadership (Howard, Hawkins and Drake), tactics (fireships) breaking Spanish crescent formation and superior English ships. Strengthened England's foreign policy and enhanced Elizabeth's authority

Key Topic 3: Golden Age?

Society-Strict social hierarchy with the poor and rich leading very different lives. Hobbies and pastimes for both classes but theatre popular with all. Growing Merchant class.

Education- Low but growing levels of literacy. Education for rich boys with growth in Grammar schools. Universities available as well as tutors

<u>The Poor-</u> high levels of poverty due to inflation and poor harvests. Fear of the poor (Vagabonds) Introduced policies for the deserving poor (1576 Poor Relief Act)

Exploration: Drake's circumnavigation (1577-80)

Walter Raleigh- explored the New World. Tried and Failed to colonise Virginia due to lack of preparation , Native attacks and War with Spain.

History Exam Technique

Paper 1: Crime and Whitechapel	Paper 2: American West and Elizabeth	Paper 3: Weimar and Nazi Germany
Describe two features (4 marks) Clear feature One piece of knowledge Clear feature Another piece of knowledge	AW: Give two consequences of (4+4 marks) Clear consequence Supporting knowledge about it Another clear consequence Supporting knowledge about it	Give two things you can infer (4 marks) Infer means something you can work out DO NOT REPEAT THE SOURCE.
How useful are sources A and B (8 marks) What does the source show about the topic? What knowledge do you have that shows its useful? Does the provenance make it more/less useful? Repeat for source B in separate paragraph	AW: Write a narrative account (8 marks) Try discuss three events in order -Give detail about each one (date etc) -Explain how the events link together -Have a clear finish to your narrative	Explain why (12 marks) 3x PEE paragraph Give the reason why clearly in first sentence Give knowledge to backup the reason Explain in detail why that factor impacted it
Follow up enquiry (4 marks) Detail in the source you would pick out Question you could ask that's related to the topic. Source you could use (E.g. Local newspaper) Explain how the source would help answer your question	AW: Explain the importance (8+8 marks) You answer two out of a choice of three Give the importance clearly in your first sentence Give supporting detail to explain why it was important. Give at least two different reasons for each one.	How useful are sources B and C (8 marks) What does the source show about the topic? What knowledge do you have thats shows its useful? Does the provenance make it more/less useful? Repeat for source C in separate paragraph
Similarity or difference (4 marks) What was it like in the first time period What was it like in the Second time period Explain how or why it was similar or different	EEE: Describe two features (4 marks) Clear feature One piece of knowledge Clear feature Another piece of knowledge	How are interpretations 1 and 2 different (4 marks) What does interpretation 1 say? (QUOTE) What does interpretation 2 say? (QUOTE) Explain how they are different
Explain why (12 marks) 3x PEE paragraph Give the reason why clearly in first sentence Give knowledge to backup the reason Explain in detail why that factor impacted it	EEE: Explain why (12 marks) 3x PEE paragraph Give the reason why clearly in first sentence Give knowledge to backup the reason Explain in detail why that factor impacted it	Why are interpretations 1 and 2 different (4 marks) They use different sources as evidence. Then match up the two interpretations to the two sources. (QUOTE FROM BOTH)
How far do you agree essay (16 marks) Intro (judgement) Paragraphs to Agree and Disagree (weight argument), Conclusion.	EEE: How far do you agree essay (16 marks) Intro (judgement) Paragraphs to Agree and Disagree (weight argument), Conclusion.	How far do you agree with int. 2 (16 marks) Intro- summarise the interpretations (judgement) Reasons agree and disagree with int.1 Reasons agree and disagree with int.2 Conclusion - Which one do you agree with most?

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Graphs

Topic/skill	Definition	Topic/skill	Definition
y = mX + C	The equation given to a straight line. m is the gradient and c is the y intercept	Distance-Ti me Graphs	You can find the speed from the gradient of the line (Distance ÷ Time) The steeper the line, the quicker the speed. A horizontal line means the object is not moving (stationary).
Quadratic Graph	A 'U-shaped' curve called a parabola. The equation is of the form y=ax2+bx+c, where ,a, b and c are numbers, a≠0. If a<0 , the parabola is upside down.	Exponential Graph	The equation is of the form y=a ^x , where a is a number called the base. If a>1 the graph increases. If 0 <a<1, decreases.<br="" graph="" the="">The graph has an asymptote which is the x-axis. The y-intercept of the graph y=a^x is (0,1)</a<1,>
Cubic Graph	The equation is of the form y=ax ³ +k , where k is a number. If a>0, the curve is increasing. If a<0, the curve is decreasing.	Turning Point of a Quadratic	A turning point is the point where a quadratic turns. On a positive parabola, the turning point is called a minimum. On a negative parabola, the turning point is called a maximum.
Reciprocal Graph	The equation is of the form y= <u>a</u> , where a is a number and x≠0 x The graph has asymptotes on the x-axis and y-axis	Velocity-Tim e Graphs	You can find the acceleration from the gradient of the line (Change in Velocity ÷ Time) The steeper the line, the quicker the acceleration. A horizontal line represents no acceleration, meaning a constant velocity. The area under the graph is the distance.
Roots of a Quadratic	A root is a solution. The roots of a quadratic are the -intercepts of the quadratic graph.	Area Under a Curve	To find the area under a curve, split it up into simpler shapes – such as rectangles, triangles and trapeziums – that approximate the area.
Tangent to a Curve	A straight line that touches a curve at exactly one point.	Gradient of a Curve	The gradient of a curve at a point is the same as the gradient of the tangent at that point.
Equation of a Circle	The equation of a circle, centre (0,0), radius r, is: $x^2 + y^2 = r^2$	Simultaneou s Equations	A set of two or more equations, each involving two or more variables (letters). The solutions to simultaneous equations satisfy both/all of the equations and are the coordinates of where the lines would cross on a graph

VEAR 11 TERM 1A

MATHEMATICS



Algebra

Topic/skill	Definition	Topic/skill	Definition
Equation	A statement showing that two expressions are equal	Expand	To expand a bracket, multiply each term in one bracket by each term in the next bracket. For questions with three brackets multiply each term in the solution to multiplying the first two brackets by each term in the third bracket.
Expression	A mathematical statement written using symbols, numbers or letters,	Factorise	Write an expression as a product of its factors by dividing through by the HCF and introducing brackets (The opposite of expanding)
Identity	An equation that is true for all values of the variables An identity uses the symbol: ≡	Factorise a quadratic	Create 2 brackets which multiply together to create the quadratic.
Formula	Shows the relationship between two or more variables	Complete the square	A method used to change the form of the equation so that it can be solved.
Rearranging Formulae	Use inverse operations on both sides of the formula (balancing method) until you find the expression for the letter.	Quadratic formula	A formulawhich can be used to find the solutions of a quadratic (see formula sheet)
Algebraic Fraction	A fraction whose numerator or denominator is an algebraic expressions (or both).	Function	An expression that defines the relationship between one variable and another.
Adding/ Subtracting Algebraic Fractions	For <u>a</u> + <u>c</u> , the common denominator is b x d b d	Multiplying Algebraic Fractions	Multiply the numerators together and the denominators together.



Reasoning

Topic/skill	Definition	Topic/skill	Definition
Direct Proportion	If two quantities are in direct proportion, as one increases, the other increases by the same percentage.	Circle theorems	 Angles in a semi-circle have a right angle at the circumference. Opposite angles in a cyclic quadrilateral add up to 180°. The angle at the centre is twice the angle at the circumference. Angles in the same segment are equal. A tangent is perpendicular to the radius at the point of contact. Tangents from an external point are equal in length.
Inverse Proportion	If two quantities are inversely proportional, as one increases, the other decreases by the same percentage.	Pythagoras' Theorem	The squares on the shorter two sides add to make the square on the hypotenuse (See formula sheet)
Proportionalit y formulae	Direct: y = kx or y ∝ x Inverse: y = <u>k</u> or y ∝ <u>1</u> x x	Trigonometry	The Sine ratio describes the relationship between the opposite side to the angle and the hypotenuse. The Cosine ratio describes the relationship between the adjacent side to the angle and the hypotenuse The Tan ratio describes the relationship between the opposite side to the angle and the adjacent side.
Interior angle	The total angle within a polygon	Linear sequence (nth term)	A sequence where there is a common difference between each term. The nth term describes the common difference and the starting point of the sequence.
Exterior angle	The complement of the interior angle. (Interior + exterior = 180 degrees)	Quadratic sequence	A sequence where the difference between each term increase/decreases by a common amount.



Maths communication

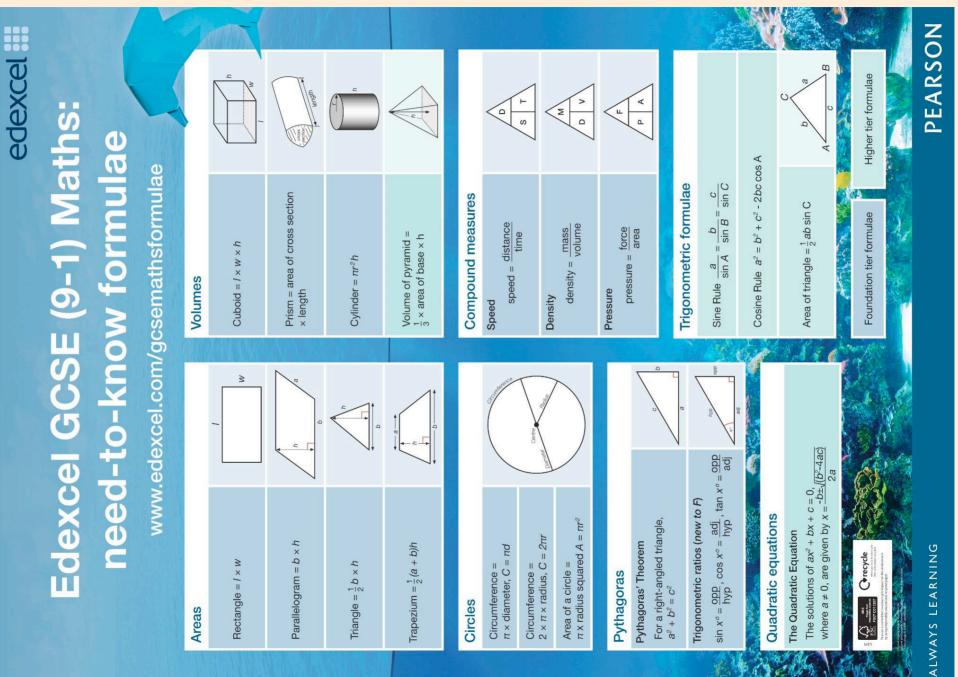
ЧС	Topic/skill	Definition	Topic/skill	Definition
KNOWLEDGE ORGANISER	Congruent Shapes	Shapes are congruent if they are identical - same shape and same size. Shapes can be rotated or reflected but still be congruent.	Product rule for counting	To find the total number of outcomes, multiply the outcomes of each event together.
	Congruent Triangles	4 ways of proving that two triangles are congruent: 1. SSS (Side, Side, Side) 2. RHS (Right angle, Hypotenuse, Side) 3. SAS (Side, Angle, Side) 4. ASA (Angle, Side, Angle) or AAS <u>ASS does not prove congruency.</u>	Transformations	Reflection- Give the equation of the mirror lineRotation- Describe the rotation with an angle of turn, directionclockwise/anti-clockwise) and a centre of rotation (Givecoordinates)Translation- Describe how the shape has moved with a columnvectorEnlargement- Describe the enlargement with a scale factor andcentre of enlargement
YEAR 11 TERM 2B	Similar Shapes	Shapes are similar if they are the same shape but different sizes. The proportion of the matching sides must be the same, meaning the ratios of corresponding sides are all equal.	Venn diagram	Two or three overlapping circles showing the relationships between sets of data.
$\overline{}$	Column Vector	In a column vector, the top number moves left (-) or right (+) and the bottom number moves up (+) or down (-)	Sample space	A table used to show all possible outcomes
	Magnitude	Magnitude is defined as the length of a vector.	Trigonometric graphs	<u>Sine graph</u> - Starts at 0, period of 360, max of 1, min of -1 <u>Cosine graph</u> - Starts at 1, period of 360, max of 1, min of -1 <u>Tan graph</u> - Starts at 0, period of 180 (-90 to 90), max and min are infinite, assymptotes every 180 degrees.
TICS	Parallel Vectors	Parallel vectors are multiples of each other.	Transforming graphs	f(x) + c = Vertical translationupwards f(x + c) = Horizontal translation to the left
HEMATICS	Collinear Vectors	Collinear vectors are vectors that are on the same line. To show that two vectors are collinear, show that one vector is a multiple of the other (parallel) AND that both vectors share a point.		af(x) = Vertical stretch f(ax) = Horizontal stretch of 1/a -f(x) = reflection over the x axis
MATH	Resultant Vector	The resultant vector is the vector that results from adding two or more vectors together. The resultant can also be shown by lining up the head of one vector with the tail of the other.		f(-x) = reflection over the y axis





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Need To Know Formulae





R093 Exam Topic Area 1

Topic areas covered in the entire exam

YEAR II TERM 1 CRCANISER

-	
1.1	Media Sectors and Audiences
1.2	Job roles in the media industry
2.1	How style, content and layout are linked to the purpose
2.2	Client requirements and how they are defined
2.3	Audience demographics and segmentation
2.4	Research methods, sources and types of data
2.5	Media codes used to convey meaning, create impact and/or engage audiences
3.1	Work planning
3.2	Documents used to support ideas generation
3.3	Documents used to design and plan media products
3.4	Legal issues that affect media
4.1	Distribution platforms and media to reach audiences
4.2	Properties and formats of media files

	Traditional Media		
Film	ти	Radio	Publishing
CGI	Soaps	News	Newspapers
SFX	TV Series	Weather	Magazines
VFX	Chat Shows	Adverts	Leaflets

	New Media			
Computer Games	Interactive Media	Internet	Digital Publishing	
Consoles	Websites	Websites	eBooks	
Computers	Kiosks	Social Media	Comics	
Smart Devices	Apps	Streaming Media	Video Podcasts	

Job Roles Description		
Sector	Roles in different areas, e.g. TV, computer games	
Medium/Platform	Roles in different products e.g. online content, print publishing	
Production Phase	Roles for specific phases e.g. pre production, post production	
Skill Type	Roles which require a specific skill e.g. creative, technical	
Seniority	Roles for different stages e.g. junior, mid level, senior	



R093 Exam Topic Area 2

PURPOSE

TASK main piece of work ACTIVITY things to do to complete the task **WORKFLOW** the order to complete tasks

LOCATION RECCE scouting the location before production. Check lighting, sound, camera shots, risk assessment etc.

TYPES OF RESEARCH

ADVERTISE	Selling a product to the consumer.	TYPES OF RESEARCH			
INFORM	The sharing of information with the consumer.	PRIMARY	Questionnaire	Focus Group	Interview
EDUCATE	Teach new information to the consumer.	SECONDARY	Websites	Reports	Books
ENTERTAIN	NTERTAIN Providing enjoyment for the consumer. Q		Focus Group	Interviews	
INFLUENCE	Encouraging people to follow a viewpoint	QUANTITATIVE	Surveys	Statistics	

Microphones type	Directional, Cardioid, bi-directional	Mise en Scene	Background, light, costume, actors etc
Diegetic/Non Diegetic	The sound is seen or implied e.g. speech	Environment/Atmosphere	Quiet and isolated, busy street
Non Diegetic	The sound is not seen or implied e.g. background music	Body Language and Facial Expressions	Emotions can be conveyed in different ways using body or facial expression
Camera Shots/Angles/Movement	Close up. High angle. Pan.	Colour	Meaning through colour e.g. red = danger
Lighting Techniques	Direction, high key, low key	Musical symbolism	Genre, pace, tempo, timbre
Video Techniques	Jump cut, fade, pace	Written Codes	Use of language to convey meaning
Navigation/Interaction	Use of buttons, clicks, swipes	Typography	Font type, size, emphasis (bold, italic etc)
Animation	3D, 2D, stop motion	Movement	Camera and actor movement conveys meaning
Gaming conventions	Object properties, triggers, interactions	Images	Conveying meanings through imagery

R093 Exam Topic Area 3 and 4

DOCUMENT	PURPOSE	CONTENT	ANATOMY OF A WORK PLAN
MIND MAPS	 Quickly gener outline ideas Link or conne aspects of idea Initial meeting 	Sub-nodes (with branches)CtTopics (keywords)	Tasks Duration Time Shorts VEEK1 VEEK2 VEEK3 Start Date: 04/01/2017 M T V TH F SA SJ M T V VEEK3 DEVELOPMENT dd A Taskk Timescale
MOOD BOARDS	 Visual tool use inspire ideas new project Identify the the NOT to show v product will loc 	 Colours (and scheme) Text (fonts, styles quotes) Textures / fabrics me Sound & video clips (only for digital) 	Financing Moneybags 6 d PRE-PRODUCTION 10 d Casting Set Design Locations H. Boss 3 d Hair V.Sassoon 3 d Make-up M. Factor 3 d PRODUCTION 7 d
VISUALISATION DIAGRAMS	 Visually share to client (image Visualise final in the state of t	e) Text (fonts, style, text examples, titles, siz	
SCRIPTS	 Provide dialog actors so they 		FILE FORMATS + COMPRESSION
SCAN ME	 Provide details about actions Provide direct for actors and production crev 	Character names (centred) Dialogue between characters (centred) Transition (fade in/out, fade to black, wip ons	IMAGEVIDEOAUDIOripe etc).jpg Lossy.mp4 Lossy.mp3 Lossy.tiff Non.avi Non.wav Non
STORYBOARDS	• Visual plan on timeline for a	a Camera shots (close up, mid, long) Cam movement (pan, tilt, zoom) Camera angl	
	 moving image Plan out the cash of shots/angles 	(over the shoulder, low / high angle) Timings / durations. Location. Sound. Sor numbers.	Scene TERM © ® TM CLASSIFICATION DATA PROTECTION
SCAN ME	crew	<mark>3 of the above in each box under the sl</mark>	Registered restrictions data of users
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KNOWLEDGE

MEDIA



Environment Theme 2



VEAR 11 TERM 1A

Je m'inquiète beaucoup de – l'm really worried about	la déforestation – de la pluie acide – acid les marées noires – la surpopulation – de les espèces d'extin	rain oil spills overpopulation	ad species					
Le problème le plus grave est (que) – the most serious problem is (that)	 les espèces d'extinction – threatened/endangered species la destruction des forêts – destruction of woods/forests il y a trop de déchets dans les rues – there's too much litter/rubbish in the streets il y a trop de circulation – there's too much traffic la circulation cause beaucoup de bruit – the noise causes a lot of noise il y a trop d'usines – there are too many factories il n'y a pas d'espaces verts – there are no green spaces les gens ne recyclent pas – people don't recycle 							
cela cause – it o jam menacer – to the une amende – a	reaten	c'est nocif – it's harmful le carburant - fuel ac – a factory	U n embouteillag cuser - to blame	e – a traffic				
inondations - flo une tempête de	t de terre – an earthqu oods neige – a snowstorm forêt) – a (forest) fire		n – a hurricane ment – a tremor	les				

Pour protéger l'environnem ent/ la planète – to protect the environment/ the planet	il (ne) faut (pas) – you must(n't)	 éteindre la lumière – turn off the light prendre une douche au lieu d'un bain – shower instead of having a bath séparer les déchets – separate the rubbish recycler le plastique et le verre – recycle plastic and glass débrancher les appareils électriques – unplug electrical appliances économiser de l'énergie – save energy
	ll faut - you must	fermer le robinet – turn off the tap faire de son mieux – do everything possible gaspiller de l'eau – waste water utiliser des sacs en plastique – use plastic bags

À mon avis, il y a tant de problèmes environnementaux	In my opinion there are so many environmental problems
mais je pense que le problème le plus grave est	but I think that the most serious problem is
c'est nocif	it's harmful
Les usines et les embouteillages	Factories and traffic jams
Acheter des produits verts.	To buy eco-friendly products
étant donné que cela cause les espèces menacées et	because it causes endangered animals and
J'ai organisé un événement pour recueillir des fonds.	I organised an event to raise money.
Pour protéger la planète	To protect the planet
Moi, je vais essayer d'utiliser moins d' énergie.	I'm going to try to use less energy.
Je vais faire de mon mieux.	I'm going to do everything possible.



KNOWLEDGE

Social Issues Theme 2

) CL	Homelessness a	and Inequa
ORGANISER	unemployment	le chôma
RGA	poverty	la pauvre
	homeless person	le sans-a
	equal	Égal
TERM 1B	war	la guerre
11 TEF	to bully, harass	harceler
YEAR 1	bullying, harassment	le harcèle
	immigrant	l'immigré
	to worry	s'inquiéte
	demonstration	la manife
\top	peace	la paix
Ú Z	grateful	reconnais
3ENCH	refugee	le réfugié
	to tolerate, put up with	supporte

and Inequality		Healthy lifes
le chômage		to be well
la pauvreté		to be better
le sans-abi / SDF		to stop
	1	happiness
Égal		to relax
la guerre		
harceler		to become
Talcelei	1	fit
le harcèlement		in good healtl
l'immigré (m)		balanced
s'inquiéter		green area
la manifestation		to avoid
la paix		fitness
reconnaissant		strong
le réfugié		rganisation ca
supporter	une m	AIDS ée – the smoke aison de retra
le témoin	home I'odeu	r – the smell

Healthy lifestyles					
to be well	aller bien				
to be better	aller mieux				
to stop	(s') arrêter				
happiness	le bonheur				
to relax	se détendre				
to become	devenir				
fit	en bonne forme				
in good health	en bonne santé				
balanced	Équilibré				
green area	l'espace vert (m)				
to avoid	Éviter				
fitness	la forme				
strong	fort				

une organisation caritative – a charity
SIDA– AIDS
la fumée – the smoke
une maison de retraite – old people's
home
l'odeur – the smellmort - dead
le travail bénévole / le bénévolat – voluntary
work
un fumeur – a smoker
une campagne – a campaign
un voleur – a thief
le développement – development

Helping people	
charity	l'association caritative
equality	l'égalité (f)
to look after	garder
medicine	le médicament
voluntary work	le travail bénévole
guilty	coupable
advice	le conseil
enquiry	l'enquête (f)
to lead	mener
disadvantage d people	les personnes défavorisées (f)
care	le soin
tattoo	le tatouage

GCSE FRENCH

witness



YEAR 11 TERM 2A

GCSE FRENCH

Local Area and Social Issues (con't)

Il n'est pas juste qu'il y ait autant d'inégalités sociales dans le monde.	It's not fair that there's so much social inequality in the world.	Adjectives to describe your town		L'avantage principal de vivre en ville c'est qu'	The best thing about living in the city is that	
De plus, c'est terrible qu'il y ait In addition, it's terrible that there		noise	le bruit	À mon avis, la vie en ville	In my opinion life is very	
autant de personnes obèses et autant de toxicomanes dans ma	are so many obese people and so many drug addicts in my city.	noisy	bruyant	est très stressante	hectic in the city	
ville.		quiet	calme	et c'est pourquoi je préférerais vivre à la	therefore I would prefer to live in the countryside.	
Je ne bois jamais d'alcool parce que c'est un gaspillage d'argent	I never drink alcohol because it's a waste of money	clean, tidy	propre	campagne.		
mais mes amis en boivent tous les week-ends.	s en boivent tous les but my friends drink it every weekend.		animé	Il me semble qu'il y a beaucoup de chômage	It seems that there is a lot of unemployment	
et vous fait vous sentir comme un	and makes you feel like an adult.	famous	célèbre	on peut profiter du plein air.	you can enjoy the fresh air.	
adulte.		poor	pauvre	Si c'était possible, je	If it were possible I would	
Le pire, c'est que je fume des cigarettes et			sale	changerais beaucoup de choses de ma ville.	change a lot of things in my city.	
c'est très dommageable pour la santé.	it's very damaging to your health.	overcrowde d	surcharg é	Par exemple, je réduirais la pollution et	For example I would reduce pollution and	
C'est nocif pour les poumons	It harms your lungs			je planterais plus d'arbres car	I would plant more trees because	
et ça provoque une forte dépendance physique	and causes a strong, physical dependence			dans le passé, elle était très industrielle.	in the past it was very industrial.	
mais je ne peux pas m'arrêter	but I can't stop					



Marriage & Partnership - Theme 1

Mon partenaire idéal/ ma partenaire idéale - my ideal partner Ma personne idéale my ideal person	serait – would be	-	ves (physical on/personality)	À mon avis, le mariag e - ln my	est important – is important	Car- becau se	stability je suis re	de stabilité familiale – there is more family ligieux / religieuse – I am religious avoir des enfants – I would like to have	
	aurait – would have			opinion marriag e			j'ai toujours rêvé d'avoir un grand mariage – l've always dreamed of having a big wedding c'est une bonne façon de prouver son amour – it's a good way of showing love		
	respecterait mes opinions - would respect my opinions partagerait mes centres d'intérêts – would share my interests travaillerait dur – would work hard			n'est pas important – is not important		together ce n'est p	erais vivre ensemble – I would prefer to live pas nécessaire pour avoir une famille– it's ssary in order to have a family		
	gagnerait beaucoup d'argent – would earn a lot of money passerait du temps avec moi – would spend time with me			Je n'ai pas le temps et les études sont plus importantes				I don't have time and my studies are more important	
	Nous vivrions we would live Nous serions heureux – we would be happy		Cependant, à l'avenir, je me marierai.			ai.	however, in the future, I'm going to get married.		
			s – we would have lots of children	À mon avis, le mariage est important			nt	In my opinion, marriage is important	
Mon partenaii assez grand	Mon partenaire idéal serait assez grand My ideal partner would be quite tall		parce que c'est une bonne façon de prouver son amour		e prouver	because it's a good way of showing love			
mais l'apparence n'est pas vraiment importante pour moi.but appearance isn't really important to me.			et j'aimerais avoir des enfants				and I would like to have children		
et nous serions heureux. And we would be happy.		bien que d'autres disent que ce n'est pas nécessaire pour avoir une famille.		est pas	although others say that it's not necessary in order to have a family.				

YEAR II TERM 2B



YEAR 11 TERM 3A

Role Play & Photocard Exam Essentials

<u>Role Play</u>

<u>Questions</u>

Avez vous ... ?- do you have...? (Est-ce qu')il y a... ?- is there...? Que penses-tu de...? - what do you think of...? À quelle heure est/are... - at what time is/are... ...est à quelle heure? - what time is the...? Où est / où sont... - where is /are...? Il y a une reduction? - is there a reduction C'est combien - how much is it? C'est loin? - is it far? Quel jour? - which day? Quelles sont les heures d'ouverture - what are the opening hours? Tu aimes...? - do you like...?

Statements

Je veux/je voudrais - I want/would like Une table près de la porte - a table near to the table Ça s'écrit - that's spelt Près d'ici - near to here Reserver une chambre - to reserve a room Avec balcon/douche/un grand lit - with a balcony/shower/double bed Pour deux/trois personnes - for 2/3 people C'est ouvert tous les jours à/de... it's open everyday at/from...?. Je voyage en- I'm travelling/ I travel by Ça ferme à... - that/it closes at... Je ne m'entends avec - I don't get on well with Je m'entends avec - I get on well with To avoid! Je préfère - instead use j'aime/j'adore

Récent - instead use hier / la semaine dernière

Photocard To start off

Dans l'image In the image ll y a... There is/ are l see veo... Puedo ver ... You can see En primer plano... In the foreground Al fondo In the background .. À la gauche.. to the left A la droite.. to the right Près de ... close to

<u>Weather</u>

C'est en été /hiver Il y a du soleil Il pleut it's in summer/winter it's sunny it's raining

What's there?

II y a un homme/une femme- there is a man/woman(des hommes/des femmes) - some men/womenUne famillea familyDes personnessome peopleBeaucoup de genslots of peopleDes bâtimentssome buildingsDes arbressome trees

What are they doing?

ils/elles sont en train de... - they are in the process of... il/elle est en train de... - he/she is in the process of... manger/regarder/parler/faire - eating/watching/speaking/doing

Remember: PALMO (person, activity, location, mood, opinion)

Remember: ADore = answer, develop- opinion, reason, extend (with tenses)



Travel & Tourism Theme 2

Sample sentences (key phrases/verbs in bole	d)		
Cada año voy de vacaciones a España porque hace mucho sol y calor.	Every year I go on holiday to Spain because it is very sunny and hot.	Additional vocabulary	
		viaje	
Creo que las vacaciones son importantes	I believe that holidays are important because	vuelo	
porque te ayudan a desconectar.	orque te ayudan a desconectar. they help you to disconnect		
		albergue juvenil	
El año pasado fui a Grecia con mis padres	Last year I went to Greece with my parents but	parador	
pero hubiera preferido ir con mis amigos,	I would have preferred to go with my friends,	pensión	
		ascensor	
Tomé el sol y jugué al tenis en la playa	I sunbathed and I played tennis on the beach.	disponible	
		libre	
		limpio	
Desafortunadamente no había piscina ni	Unfortunately there wasn't a swimming pool	llave	
restaurante en el hotel.	or restaurant at the hotel.		
		bonito / hermoso	
Lo mejor fue cuando visitamos la catedral.	The best thing was when we visited the	feo	
Fue emocionante.	cathedral. It was exciting.	grande	
		pequeño	
Si tuviera más dinero iría a Australia.	If I had more money I would go to Australia. I	turístico	
Tengo ganas de ver Sydney. Siempre he	want to see Sydney. I have always dreamed	industrial	
soñado con visitar la casa de la Ópera.	of visiting the Opera House.	ruidoso	
		sucio	
El año que viene voy a ir a Francia con mis amigos.	Next year I am going to go to France with my friends.		

modio popoión	Holfboord
media pensión	
pensión	Full board
completa	
saco de	Sleeping
dormir	bag
retraso	delay
instalaciones	facilities
mar	sea
playa	beach
parque	theme park
temático	

journey flight

accommodation

Youth hostel

parador B and B

available

ugly big

small touristy industrial

noisy dirty

clean

key

Free (available)

pretty / beautiful

lift



Local Area & Environment: Theme 2

pobreza

basura

rubbish

Ш У С	Sample phrases (key words in bold)					medio ambiente. No	-				
KNOWLED(ORGANISEF		Me chifla mi barrio porque hay mucho para los habitantes.I really love my neighbourhood because there's a lot for the				que malgastar el agua.			You shouldn't waste water.		
	residents.					ción es el problema r		Id say that pollution	is the most		
KNC ORC	Por ejemplo, se puede nadar en el mar, ir a la playa o ir de comprasFor example, you can swim in the sea, go to the beach or go shopping				grave serious problem						
	ya que hay grande.	un centro comercial	as there's a big shopping centre. In my village there is a historic castle and a very interesting church. Also there is a lake where you can do water skiing.		Reciclo papel y vidrio cada semana por ejempo ayer reciclé dos botellas. Es necesario que reciclemos.		exam	I recycle paper and glass every week for example yesterday I recycled 2 bottles. It is necessary that we recycle.			
		o lo hay un castillo Ina iglesia muy									
TERM 1B	interesante. donde se p acuático.	. También hay un lago Juede hacer esquí			Voy al colegio a pie cada día en vez de usar el coche			I go to school on foot every day instead of using the car			
Ë –		,		ere isn't a swimming							
YEAR 11	piscina. ¡ Qı hacer natac	ué lástima! Me chifla		ame! I love going	cambio	climate change		nublado	cloudy		
ΞAF	nacernalac	:1011!	swimming!		climático	5		relámpago	lightening		
×					cartón	cardboard		seco	dry		
					culpa	blame		sombra	shady		
	aumentar	to increase	medio	environment		biame		tormenta	storm		
	beneficar	to benefit	ambiente		gobierno	government		viento	wind		
			extranjero	abroad		h attan.		ir a pie	to go on foot		
	dañar	to damage	ladrón	robber	pila	battery		billete de ida (y vuelta)	single (return) ticket		
	encender	to switch on	ley	law	reciclaje	recycling		· · · · · · · · · · · · · · · · · · ·			
\perp			ley	law			invierno	winter			
ANISH	faltar	to lack	libertad	freedom	naturaleza	nature	primavera	spring			
Z					habitantes	inhabitants	otoño	autumn			
\triangleleft	gastar	star to spend	pobre /	poor / poverty	renovable	renewable	verano	summer			

it is hot

it is cold

rain

snow

it is sunny

hace calor

hace sol

hace frío

lluvia

nieve

\mathcal{S}	
Ζ	
\triangleleft	
Ń	

proteger

utilizar

injusto

to protect

to use

unjust



YEAR II TERM 2A

GCSE SPANISH

Culture & Traditions, Future Hopes

Creo que las corridas de toros son crueles y estoy en contra	I believe bullfights are cruel and I am against them		
Se comen más pescado y legumbres	They eat more fish and vegetables	Cuando	When I am
Hay fiestas que no existen en Inglaterra como las procesiones de la Semana Santa.	There are festivals which don't exist in England like the Holy Week processions.	sea mayor , quiero casarme	older , I want to get married
Hay / Había desfiles / fuegos artificiales	There are / there were processions / fireworks	porque quiero una	because I want a
¡Qué interesante!	How interesting!	familia.	family.

¡Hola! Me llamo Pablo y vivo en Skegness que está en el este	Hello! My name is Pablo and I live in
de Inglaterra	Skegness which is in the east of England
en la costa la cuál es muy bonita y siempre hace buen	on the coast which is really pretty and it's
tiempo.	always nice weather .
Vivo con mi familia en una casa adosada en las afueras	I live with my family in a terraced house in
	the suburbs
pero mis abuelos viven en una granja en el campo .	but my grandparents live on a farm in the
	countryside.
Hay un jardín, un garaje y una cocina moderna en mi casa	There's a garden, a garage and a modern
pero	kitchen in my house but
mi dormitorio es mi habitación preferida porque tengo todos	my bedroom is my favourite room because I
mis libros y música allí .	have all my books and music there .
Mi cama está al lado de la ventana y mi televisión está	My bed is next to the window and my
enfrente de mi sofá.	television is opposite my sofa.
Me gusta mi casa ya que es cómoda. En el futuro me gustaría	I like my house as it's comfortable. In the
vivir en Francia porque es más interesante.	future I would like to live in France because
	it is more interesting.

ciudad	town
edificio	building
campo	countryside
pueblo	village
puerto	port
lugar	place
aeropuerto	airport
aparcamiento	parking
ayuntamiento	town hall

Shopping, Town, School - Themes 2 & 3

mezquita	mosque	sala de fiestas	Night club	Quisiera / Me gustaría un jersey grande por favor	I would like a big jumper please	comida b / rápida
museo	museum	teatro		<u> </u>	A table for two	ropa
museo	museum		theatre	¿Cómo se escribe tu apellido?	How do you spell your surname?	bañador
parque infantil	playgrou nd	tienda	shop	¿Qué talla/ tamaño tienes/llevas/usas?	What size?	bolso
plaza de toros	bullring	bonito / hermoso	pretty / beautiful	¿De qué color? ¿Cuánto es?	What colour? How much is it?	camisa
plaza	square	feo	ugly	¡Qué elegante!	How elegant	pantalone cortos
	Orrente			L	I	vaqueros
polideportivo	Sports centre	grande	big	Tenemos que llevar uniforme. Está prohibido llevar piercings		
residencia para	Old peoples	pequeño	small	eso no es justo.	that is unfair	zapatos
ancianos iglesia	home church	turístico				guantes
Igiesia		lunsico	touristy	conseguir	to get, to achieve	maquillaj
mercado	market	industrial		dejar de	to leave / to stop	juguete
			industrial	esperar	to hope	
biblioteca	library	ruidoso	noisy			recibo
			TIOISY	evitar	to avoid	rebajas
bolera	bowling	sucio	dirty	tomar un año libre/sabático	to take a gap year	
]	hull in a	caja
centro comercial	shopping centre			(ciber)acoso	bullying	vendedor
				alumnos	pupils	precio
				comportamiento	behaviour	talla
				olvidar	to forget	

basura junk /fast food clothes swimsuit bag shirt nes short (trousers) วร jeans dress shoes gloves aje makeup toy receipt sales till shop or assistant price size

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Term 3: Role Play & Photocard Exam Essentials

Role Play

<u>Questions</u>

¿Tienes... ?- do you have...? ¿Hay... / qué hay?- is there.../ what is there? ¿Qué piensas de...? - what do you think of...? ¿a qué hora es/son... - at what time is/are... ¿dónde está/están? - where is/are...? ¿hay una reducción? - is there a reduction ¿cuánto cuesta.../cuánto es?- how much does ... cost? /How much is...? ¿está lejos? - is it far? ¿te gusta? - do you like? ¿te gustaria...?- would you like?

Statements

Pienso que... Creo que...- I think that. Cuesta___euros... - It costs____euros Hay... - There is/are Dura.... horas/días...- It lasts... hours/days A las tres/cuatro/cinco... -At three/four/five o'clock Normalmente.../Generalmente... - Normally/Generally Es.../Son...- It is/they are Me gusta/me gustan...- I like No me gusta/no me gustan...- I don't like Odio/detesto...- I hate No puedo...- I can't Lo siento.../Perdona..- I am sorry

Photocard

To start off

En la photo In the photo There is/ are Hay ... Je vois... l see On peut voir... You can see Au premier plan... In the foreground Au deuxième plan.. In the background A la izquierda... to the left A la derecha. to the right Cerca de ... close to

<u>Weather</u> Hace sol Está lloviendo

it's sunny it's raining

<u>What's there?</u> Hay un hombre/ una mujer - there is a man/woman

Una familia Unas personas Mucha gente Unos edificios Unos árboles

a family some people lots of people some buildings some trees

<u>What are they doing?</u> Está(n) hablando/discutiendo/sonriendo/riendo/jugando he/she (they) are talking/arguing/smiling/laughing/playing

Remember: PALMO (person, activity, location, mood, opinion)

Remember: ADore - Answer, Develop - opinion, reason, extend (with tenses)



Component 2 - Music skills development

A1 Professional skills for the music industry

- time management
- self-discipline
- working with others o correct and safe use of equipment
- identifying resources required
- auditing existing skills and maintaining a development plan

A2 Planning and communicating music skills development

- Planning development processes
- Strategies for skills development
- Managing equipment and resources

Methods of capturing musical development, such as:

- digital or traditional portfolios, including studio track sheets, production notes, rehearsal diaries, screenshots, key milestone performances and reviews from others

- recorded auditions
- compositional sketches
- raw recordings
- drafts
- application of effects
- initial mixes.

Having a clear and organised approach to communicating:

- key points in the process are referenced and in a logical order
- images, videos and recordings are clear
- written commentary supports the quality of work.

Sharing and commenting on work:

- social media, e.g. Soundcloud™, Facebook™, YouTube™
- jam sessions, improvisation sessions, mixtapes, demos, sharing samples, remixing and reworking, white label, remote collaboration.

B1 Development of technical music skills and techniques

Development processes:

- individual development routines
- identifies technical exercises for development
- includes setting goals
- includes monitoring and tracking of progress.

Careers in the Music Industry:

Performer: Sing, play instruments or record their own music this can be as part of a band or a solo act

Composer: Write music for TV, film or live performance. Composers will often work alone and be hired by media companies to create music for their film/tv show or advertisement.

Songwriter: Create music and lyrics for other artists to record. They can sometimes work with composers to create full tracks together

Music Therapist: use music to help their clients achieve therapeutic goals

Producer: Mix, edit and lead the creative and technical aspects of recordings. They are in charge of the recording studio and edit the recordings to make the song sound polished and fully formed.

Session Musician: expert studio players who are hired on a short-term basis to record backing tracks for recording artists

DJ: play a mix of preexisting music to a live crowd or on a radio station

Music Teacher: teach students how to understand, create and perform music

Peripatetic Teacher: teach one specific instrument to a high standard

Talent Relations: Engage with musicians to get the to perform at your event or for your cause/employer

Sound Engineer: assembling, operating and maintaining the technical equipment used to record, amplify, enhance, mix or reproduce sound

Event Manager: plan and organise live music events e.g. gigs & festivals **Publicist**: promote and market a band or artist

Music Journalist: write for media about new releases or live performances, this can be in a blog or social media post, a magazine or in formal print media.

B2 Development of music skills and techniques

Developing musical skills appropriate to style and context, such as:

- timing and phrasing, using rhythm and pitch in the creation or recreation of music, using equipment, instrumentation or software appropriately, expression, combining instruments/sounds, health and safety in the use of equipment and/or instruments.

Applying skills development to the creation of content/material:

- creative intentions, skills needed, stylistic accuracy, creation of content/material.

Music performance: tuning (if appropriate), learning repertoire, physical preparation and exercises, instrumental or vocal technique, practise routines e.g. scales, following accompaniment, stage presence.

Creating original music: exploring and extending ideas, using structure effectively, using rhythmic and melodic patterns, development of harmony.

Music production: using software instruments, using audio and software tools, manipulation techniques, inputting and editing audio, using effects, structuring music



YEAR 11



Component 3 - Music theory

Instrumentation

Brass: trumpet, tuba, trombone, french horn Woodwind: flute, clarinet, saxophone, bassoon, bass clarinet, piccolo, oboe Strings: violin, viola, cello, double bass, harp Percussion: drums, tambourine, xylophone, glockenspiel, piano.

Technology - turntable, synthesiser

Instrument techniques

Strings: plucking (pizzicato), arco (playing with a bow), strumming, slap bass
Percussion: drum rolls, shaking, plucking, scraping, striking
Woodwind: pitch bend, flutter tongue, double tonguing
Brass: playing with a mute, hand slide, double tonguing,
Vocals: vibrato, scat singing, pitch bend,

Ensemble types:

Duet - 2 performers Trio - 3 performers Quartet - 4 performers Band - lead guitar, rhythm guitar, bass guitar, drums, vocalist Jazz band - rhythm section (drums, piano, guitar etc) and melodic section (brass, vocals, saxophone)

Timbre: the sound/tone of an instrument

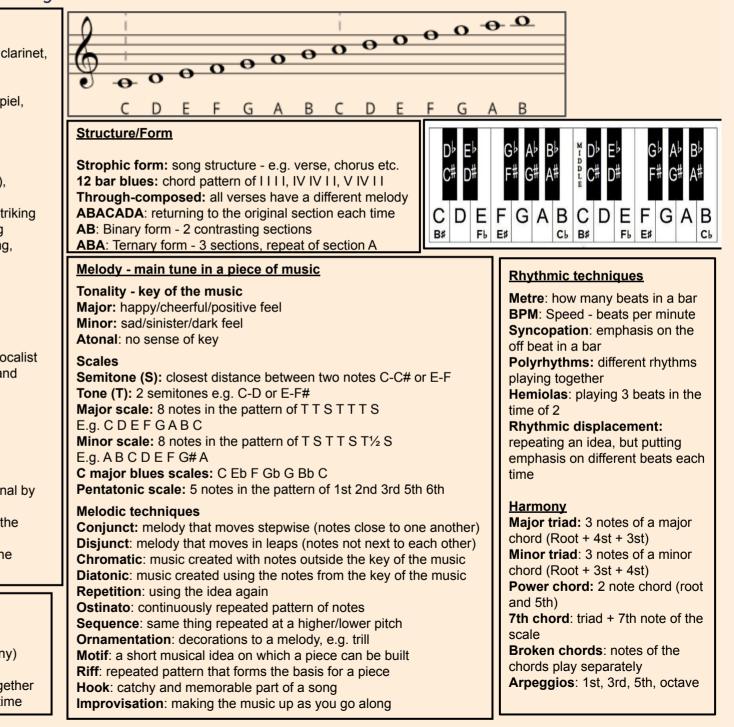
Electronic sound effects

Reverb: electronically produced echo effect
Phaser: electronic sound processor used to filter a signal by creating peaks and troughs in the frequency
Delay: time based audio effect creating a repetition of the original
Distortion: modifying the original sound and altering the quality

<u>Texture</u>

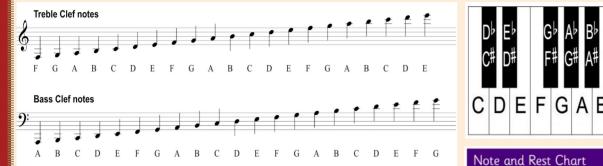
Solo: 1 performer

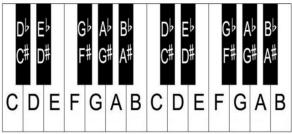
Homophonic: same rhythm, different pitches (harmony)Monophonic: 1 part/all doing the same thingPolyphonic: playing different pitches and rhythms togetherUnison: everyone doing the same thing at the same time



YEAR 11

Music - Production





note

0

name

semibreve

minim

crotchet

quaver

semi auaver

relative length

whole note

half note

quarter note

eighth note

sixteenth note

Sonic features

Instrumentation: instruments used and their techniques Timbre: sounds the instruments make Texture: number of parts and how they play Production: technology and techniques used

t	in4 time	Garageband Piano Roll number of boxes
_	beats 2 beats	16 boxes
	1	8 boxes
	beat 1/2	4 boxes
	beat 1/4	21
=	beat	2 boxes
		1 box

<u>GarageBand</u>

Shortcuts

The shortcut button on Garageband is Command (cmd ℜ) on mac keyboards, and the windows key ([ʑ]) on PCs

Hold Command - Pencil tool (Create tool) Hold Command + Z - Backspace (Undo last action) Hold Command + T - Cut note clip at playhead Hold Alt and drag - Copy Drag from bottom of note clip - Extend or make shorter Drag from top of note clip - Loop (copies)

<u>Tips</u>

- Before you begin a new project, it is often a good idea to arrange your track: Go to Track > Show arrangement track Press the plus button to add a section Click on your new section and rename it what you want to it be called
 Use the quantise function to put things in time for you: Just highlight the notes, and click the Q button on the right hand side of the piano roll
 Colour code your tracks to be able to navigate your project easier: Right click the instrument track and select "Assign track colour"
 Use the loop function to continually repeat a certain section: Drag the yellow bar above the instrument tracks across the section you want to loop
 When inputting chords remember this formula for major and minor:
 - Major: Root, up 4 semitones, up 3 semitones Minor: Root, up 3 semitones, up 4 semitones

Production

Sampling: taking an element of a pre-existing recording and manipulating this for use in your own composition

FX: stands for 'effects'. Used to mix music, add interest, and create different types of sounds

Looping: a section of music that repeats itself continuously

Quantise: moving notes on a DAW to ensure timing accuracy

Sequencing: putting sections of a piece or ordering a series of actions within a piece of music in a DAW

Turntablism: Using DJ equipment to manipulate sounds, create new music, sound effects, mixes and other beats

Automation: setting DAW up to perform tasks automatically

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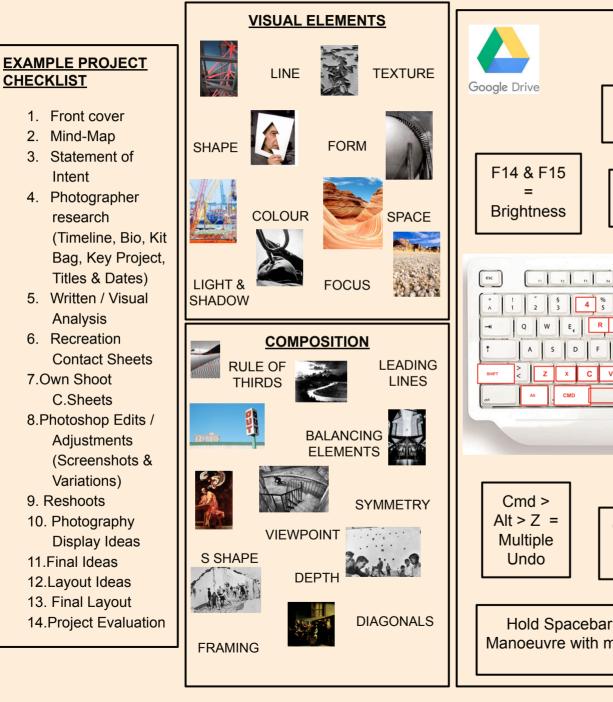


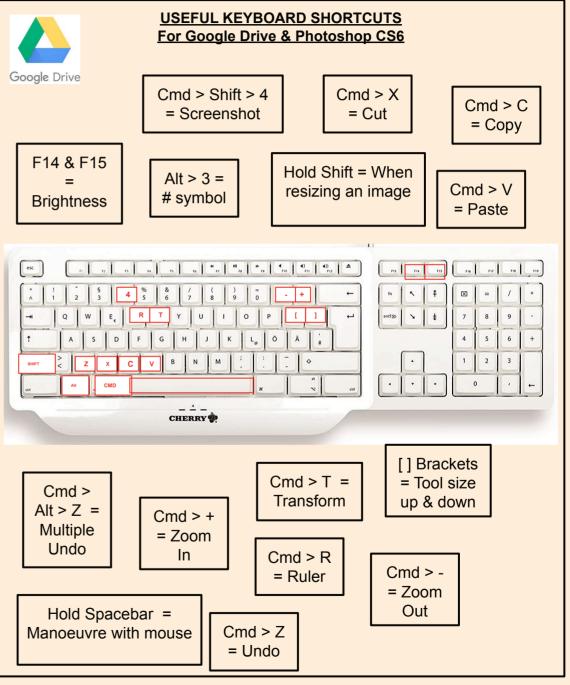
The Basics part 1

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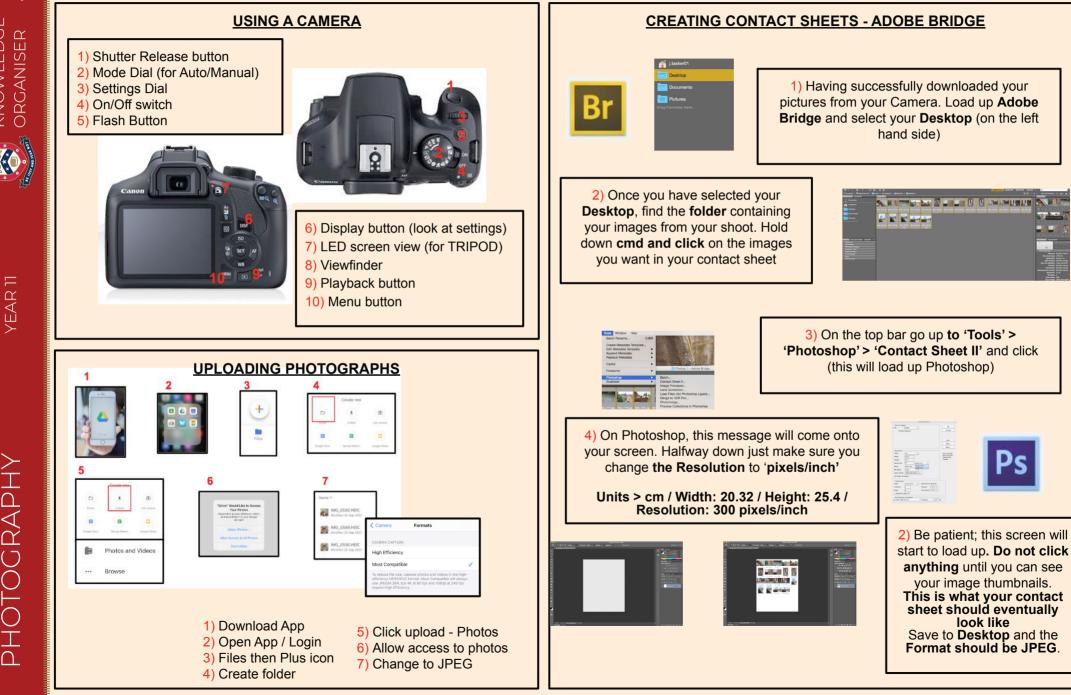


YEAR 11





The Basics part 2



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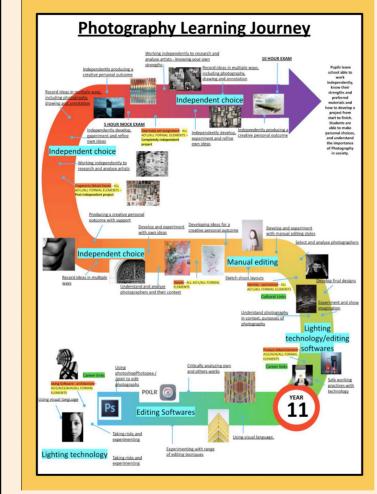
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Photography GCSE Being a Year 11 & Exam Prep

EXAMPLE PROJECT CHECKLIST

- 1. Front cover
- Mind-Map
 Statement of Intent
- 4. Photographer research
- (Timeline, Bio, Kit Bag, Key Project, Titles & Dates)
- 5. Written / Visual Analysis
- Recreation Contact Sheets
 Own Shoot
- C.Sheets 8.Photoshop Edits / Adjustments (Screenshots &
- Variations) 9. Reshoots
- 10. Photography
 Display Ideas
 11.Final Ideas
 12.Layout Ideas
 13. Final Layout
 14.Project Evaluation



Externally Set Task (Unit 2 - Worth 40%)

Using the skills, knowledge and understanding you have developed over your coursework you will be expected to create a project based on a starting point given to you by OCR.

Your Digital Sketchbook for Externally Set Task will be completed from 2nd Jan up until the 1st day of the exam (usually at the start of May). This will include:-

- 1. Front cover (Name, Theme Title, Unit)
- 2. MIND MAP with visuals linked to chosen theme
- 3. Statement of Intent (Chosen Theme & Initial Ideas)
- 4. Photographer research x 2 Photographer(s) (min)
- 5. Photographer 1 Written & Visual Analysis (for each)
- 6. Photographer Recreations / C.Sheets (2 for each)
- 7. Initial Photoshop Edit Steps slide (link to style)
- 8. START TAKING PHOTOS FOR EXAM [5+ shoots]
- 9. Create VISUAL ANALYSIS OF OWN WORK(S)
- 10. PRACTICE FINAL Photoshop Edits / Adjustments

<u>10 HOUR EXAM</u>

- 11. Photoshop / Lightroom ANNOTATE AS YOU GO
- 12. Screenshot all edits on Photoshop and annotate (every time you do something new)
- 13. Photography DISPLAY IDEAS (3+ Examples)
- 14. Finalised LAYOUT & FINAL DISPLAY PRESENTATION Edits (Linked to your artists / photographers)
- 15. Present FINAL PIECES (LARGE SLIDES)
- 16. Full written PROJECT EVALUATION 500+ words

YEAR 11



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YEAR 11 TERM 1

Unit 1: Reducing the Risk of Sports Injuries

Topic 1 - Different factors which influence the risk and severity of injury

Extrinsic factors

- Type of activity
- Coaching/Instructing/Leading
 - Knowledge of techniques/rules/regulations
 - Experience
 - Communication
 - Supervision/ Ethical Standards/Behaviour
- Environmental factors
 - Weather / temperature conditions
 Playing surface (natural and artificial) and surrounding area
 - Human interaction
 - Other performers/participants/Officials/ Spectators
- Equipment
 - Protective equipment/Performance equipment/Clothing/ Footwear

<u>Topic 1 - Different factors which influence the risk and severity of</u> <u>injury</u>

Intrinsic factors

- Individual Variables
 - Age / Gender / Experience / Weight / Fitness levels / Technique & Ability / Nutrition & Hydration / Medical Conditions / Sleep / Previous or Recurring Injuries
- Psychological factors
 - Motivation / Arousal / Anxiety & Stress / Confidence / Aggression - Direct & Channelled
- Reasons for Aggression
 - Level of Performance / Retaliation / Pressures to win (performer/Coach/Spectators) / Decisions of Officials / Performance Enhancing Drugs
- Mental Strategies
 - Mental Rehearsal / Imagery / Selective Attention

Key Terms

Extrinsic: Risks from outside the body

- -Intrinsic: Risks from within the body
- -Protective equipment: Equipment used in sport to protect the body
- -Performance equipment: Equipment needed to perform the sport
- -Posture: Position the body is held in
- -Aggression: Intention to cause harm
- -Heart rate: Number of beats per minute
- -Strain: Injury to muscles
- -Sprain: Injury to ligaments

Warm up

- Key Components
 - Pulse raiser / Mobility / Dynamic Stretching / Skill Rehearsal
- Physiological benefits
 - Increased Muscle temp / Increased heart rate / Increased flexibility of muscles & joints / Increased pliability of ligaments & tendons / Increased blood flow & oxygen to muscles / Increased speed of muscle contractions
- Psychological benefits
 - Heighten arousal levels / Improve concentration & focus / Increased motivation / Increased confidence / Mental rehearsal

Cool down

- Key Components
 - Pulse lowering / Stretching
- Physiological benefits
 - Lowers heart & breathing rate / Lowers body temp / Circulates blood & oxygen / Helps prevent blood pooling / Removes waste products such as lactic acid / Reduces risk of Delayed Onset of Muscle Soreness (DOMS)

PORTS SCIENCE

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YEAR 11 TERM 2

Unit 1: Reducing the Risk of Sports Injuries

Topic 3 - Different types and causes of sports injuries

Acute injuries - caused as a result of sudden trauma with immediate pain.

- Strains •
 - Torn muscle or tendon 0
- Sprains
 - Torn ligaments 0
 - Anterior Cruciate Ligament (ACL) 0
- Skin Damage
 - Abrasions/Grazes 0
 - Cuts/Lacerations 0
 - Contusions (bruises) 0
 - 0 Blisters
- Fractures
 - 0 Open
 - Closed 0
- **Head injuries**
 - 0 Concussion
 - Link to Dementia & Alzheimer's 0

Chronic injuries - result of overuse and continuous stress on an area that develops over time.

- Tendonitis •
 - Achilles / Rotator cuff / Patellar 0
- Epicondylitis
 - Lateral epicondylitis (Tennis elbow) 0
 - Medial epicondylitis (Golfers elbow) 0
- Shin splints
- Stress fractures

Topic 4 - Reducing risk, treatment and rehabilitation of sports injuries and medical conditions

Measures taken before and during participation

- **Safety Checks**
 - **Risk assessments** 0
 - Characteristics of individual/group 0
 - Group size 0
- Strategies to reduce risk of injuries
 - Medicals 0
 - Screening 0
 - National Governing Body (NGB) policies 0
- **Emergency Action Plans (EAPs)**
 - Emergency personnel (First aider / coach) 0
 - Emergency communication (telephone / emergency numbers)
 - Emergency equipment (First aid kits / evacuation chair) 0

Responses and treatment to injuries and medical conditions

- SALTAPS (See / Ask / Look / Touch / Active / Passive / Strength) •
- DRABC (Danger / Response / Airway / Breathing / Circulation) •
- **Recovery position** •
 - Unconscious performers who are breathing
- **PRICE** (Protection / Rest / Ice / Compression / Elevate) •
- Use of X-rays to detect injury •
- **Treatments/therapies** •
 - Massage / Ultrasound / Electrotherapy / Hydrotherapy / 0 Cryotherapy / Contrast therapy / Painkillers / Support (taping & bandaging) / Immobilisation (Cast, splint & sling)
- **Psychological effects of injuries**

Key Terms - -Ligament: Connects bone to bone -Tendon: Connects muscle to bone -Hazard: Something that can cause harm -*Risk*: Likelihood of hazard causing harm -Immobilisation: To reduce movement of a body part to promote proper healing -Dislocation: Bones are forced from their normal positions -Stress fracture: Tiny cracks in a bone as a result of overuse



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Unit 1: Reducing the Risk of Sports Injuries

Topic 5 - Causes, symptoms and treatment of medical conditions

Diabetes

- Overview and differences of Type 1 & Type 2 diabetes
 - Age/ Gender
- Common symptoms of Type 1 & Type
 - 2
- Increased thirst / Urinating more often / Extreme tiredness / Weight loss / Cuts take a long time to heal
- Treatment of Type 1 & Type 2
 - Insulin & Glucose / Lifestyle changes / Diet / Exercise
 - **Hypoglycemia (Hypos)** Low blood sugar
 - Hyperglycemia High blood sugar

Topic 5 - Causes, symptoms and treatment of medical conditions

Asthma

- Causes/triggers of asthma
 - Environment
 - Exercise
- Common symptoms of asthma
 - Coughing / Wheezing / Shortness of breath / Tightness in the chest
- Treatment
 - Reassurance/Inhalers

Topic 5 - Causes, symptoms and treatment of medical conditions

Epilepsy

- Overview of epilepsy
 Seizures
- Common causes / triggers of epilepsy
 - Severe head injuries
 - Anxiety / Stress
 - Tiredness / Lack of sleep
- Common symptoms of seizures
 - Eyes/Mouth/Limbs
- Treatment
 - Anti-epileptic drugs (AEDs)/Ketogenic diet

Topic 5 - Causes, symptoms and treatment of medical conditions

Sudden Cardiac Arrest (SCA)

- Causes of SCA
 - Underlying genetic heart conditions
 - Sudden trauma
- Symptoms of SCA
 - Unconscious/Breathing difficulties
- Treatment for SCA
 - Defibrillators
 - Lifestyle changes

Topic 5 - Causes, symptoms and treatment of medical conditions

Hypothermia

- Causes of hypothermia
 - Body temp below 35C / Prolonged exposure to cold/wet conditions
- Symptoms of hypothermia
 - Shivering / blue lips & skin / slurred speech / tiredness / confusion / slow breathing
- Treatment for hypothermia
 - Remove wet clothing / wrap in blankets / cover head

Heat exhaustion

- Causes of heat exhaustion
 - Body temp of 38C or above / Strenuous physical activity / Not enough water intake
- Symptoms of heat exhaustion
 - Excessive sweating / Headache & dizziness
 / Thirst / Feeling or being sick / Rapid pulse
 & breathing
- Treatment for heat exhaustion
 - Move to a cool place / Cool skin / Drink plenty of water

Dehydration

- Causes of dehydration
 - Loss of bodily fluids
- Symptoms of dehydration
 - Thirst / Fatigue / Dark urine / Dry mouth
- Treatment for dehydration
 - Drink plenty of water / Rehydration sachets

YEAR 11 TERM 3

SCIENCE

SPORTS

Personal Finance

Financial awareness key terms:

Saving(s):	the money one has saved, especially through a bank or official scheme
Budget	A budget is a spending plan based on income and expenses. In other words, it's an estimate of how much money you'll make and spend over a certain period of time, such as a month or year.
Loan:	A loan is something that is borrowed, often money, which has to be paid back with interest
Debt:	Loans and debt can be explained together. Like a loan, a debt is money that you owe someone that needs to be paid back.
Interest:	Interest has two sides: it's either something you pay when someone lends you money or something that you earn when you lend money to someone else.
Credit/Credit Card:	Credit lets you buy something without having to pay for it right away. For example, if you use a credit card to buy a new bike that costs \$200, the money doesn't come out of your bank account. Instead the credit card company pays for the bike.
Taxes:	Taxes are payments that go to the government for the work that it does, such as improving schools and fixing roads. They're taken right from your paycheck and the amount you pay depends on how much money you make.
Investment	An investment is something that you spend money on, which you believe will earn you even more money (a profit) down the line.
Mortgage:	is an agreement between you (the borrower) and a mortgage lender to buy or refinance a home without having all the cash upfront.

Term 1a: Why is being financially aware important?

Students who learn to manage their finances early often become adults who are better equipped to live independently. By teaching students to make good financial decisions, they learn to pay down debt or avoid it altogether. They can learn to budget so they know how much money they can or can't spend. Students who learn to navigate the

world of debt and credit will tend to have more money for savings, which can help pay for large expenses without relying on credit, and they can set aside money for retirement accounts.

	Monthly I	ncome	
	Expected	Actual	Difference
Allowance			
dob		1	
Gifts		1	
Savings account			
Other		1	
Other		1	
TOTALS			
N	Ionthly Ex	penses	
	Expected	Actual	Difference
Toys			
Clothing			1
Entertainment			
Gifts			1
Savings		1	
School/Sports expenses			
Other			
Other	S		
Other			1
TOTALS			
DIFFERENCE btw. income &			

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KNOWLEDGE

YEAR 11 TERM 2

Healthy Lifestyles

Healthy Life	Healthy Lifestyle					
Smear Test	Cervical screening (a smear test) checks the health of your cervix. The cervix is the opening to your womb from your vagina.It's not a test for cancer, it's a test to help prevent cancer.All women and people with a cervix aged 25 to 64 should be invited by letter					
Importanc e of Sleep	Most teens need about 8 to 10 hours of sleep each night. Getting the right amount of sleep is important for anyone who wants to do well					
Physical well-being						
Mental Health						
Unhealthy I	Lifestyle					
Gambling	Gambling Gambling comes in many forms – card games, lottery tickets, apps, video games and sports bets. At present, teen gambling addictions are more common among males, although females are becoming more involved in teenage gambling. Some signs of a pathological teen gambler include: Likes the rush felt when gambling. Takes money, but then makes desperat attempts to stay in the game by writing IOUs- Will try almost anything to stay in the game.					
Alcohol Abuse	Alcohol is a depressant, which means it slows the function of the central nervous system. Alcohol actually blocks some of the messages trying to get to the brain. This alters a person's perceptions, emotions, movement, vision, and hearing.					
Drug Use	Drug abuse can impact the brain's ability to function in the short term as well as prevent proper growth and development in the long term.Substance abuse affects teen brain development by: Interfering with neurotransmitters and damaging connections within the brain.Reducing the ability to experience pleasure. Creating problems with memory. Causing missed opportunities during a period of heightened learning potential.					



Relationships & Aspirations/Careers

Relationships

Relationships					
Pornography Dangers	Pornography's unrealistic depiction of bodies, sex, and relationships can skew a young person's views about intimacy.Pornography more often depicts relationships as meaningless and sexual gratification as the priority.				
Revenge Porn	Revenge Porn refers to the sharing of explicit or sexual, images or videos, without the consent of the person in the image. This is an issue among people of all ages from children as young as 11 to much older adults. On the 13 th April 2015 Section 33 of the Criminal Justice and Courts Act 2015 came into force. This created a new criminal offence of disclosing private sexual photographs and films with intent to cause distress. The act criminalises sharing private, sexual images or films containing scenes that would not usually be seen in public.				
Catfishing	Catfishing refers to when a person takes information and images, typically from other people, and uses them to create a new identity for themselves. In some cases, a catfisher steals another individual's complete identity—including their image, date of birth, and geographical location—and pretends that it is their own. The catfisher then uses this identity to trick other people into associating with them or doing business online. Cyberbullying involves repeated attempts to embarrass, humiliate, or harm someone using online resources. Catfishing is therefore a form of cyberbullying because the target is harmed as the catfisher plays games with their mind.				
Sexual Harrassment	Sexual harassment is a form of unlawful discrimination under the Equality Act 2010. The law says it's sexual harassment if the behaviour is either meant to, or has the effect of: violating your dignity, or creating an intimidating, hostile, degrading, humiliating or offensive environment				
Aspirations &	Aspirations & Careers				
Volunteering	Volunteering is often thought of as a selfless act — one where you give up your time for a worthy cause without being paid. Employers and universities really look for this on peoples CV's because it shows you are a selfless person.				
Extra Curricular	Extracurricular activities are endeavours a person pursues outside of school and work. Job candidates can include these activities on their CVs to show their relevant skills and interesting personality traits. Extracurricular activities can also help you add substance to your CV if you lack extensive work experience.				



Relationships & Families/Crime & Punishment

	Relationships and families: Key Terms		Crime and Punishment: Key Terms
Cohabitation	A couple living together without being married/in civil partnership.	Community service	Punishment involving the criminal doing a set number of hours of physical labour/work in their local community.
Compassion	Sympathy and concern for the suffering of others.	Corporal punishment	Punishment in which physical pain is inflicted on the criminal.
Contraception	Precautions taken to prevent pregnancy and to protect against contracting or transmitting STIs (sexually transmitted infections).	Death penalty	Capital punishment; the execution of a criminal which is sanctioned by the state.
Extended family	Family unit comprising two parents and their children, but also grandparents, cousins etc.	Deterrence	Aim of punishment; the threat of punishment as a way to put a person off committing crime (eg knowing they could go to prison if they steal).
Family planning	Planning when to have a family and how big a family to have by use of birth control practices and/or contraception.	Evil intentions	Having the desire to deliberately cause suffering or harm to another.
Gender discrimination	Acting on prejudices against someone because of their gender.	Hate crime	A crime committed because of prejudice views about a person or group.
Gender equality	Belief that all genders have equal status and value, so discrimination against any is wrong.	Principle of utility	The concept of acting out of the greater good for the most people.
Gender prejudice	Negative thoughts, feelings or beliefs about a person or group based on their gender.	Reformation	Aim of punishment; helping the criminal see how and why
Heterosexuality	Being physically/sexually attracted to persons of the opposite gender.		their behaviour was wrong, so that their mindset changes for the better.
Homosexuality		Retribution	Aim of punishment; getting the criminal back for their crimes.
nomosexuality	Being physically/sexually attracted to persons of the same gender.	Unjust law	A legal requirement within a society that is believed to be
Nuclear family	Family unit made up of two parents and their child(ren).		unfair; a cause of crime if a person believes they cannot follow (or must act against) a law they believe is unjust.
Polygamy	The practice of having multiple spouses (wives and/or husbands).	Upbringing	The environment a child lives in, and the instructions they receive, while they are growing up; can be a cause of crime.
Procreation	Having a child; seen as a duty in many religions.		



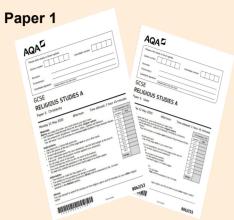
Human Rights & Social Justice/God & Revelation

Hu	uman Rights and Social Justice: Key Terms	The Existence of God and Revelation: Key Terms		
Discrimination	Actions that come from prejudice attitudes.	Design argument	An argument suggesting that proof of God's existence can be seen through the evidence of 'design' in the world; also	
Equality	Belief that everyone is equal in value and worth.		known as the teleological argument.	
Exploitation	Treating and paying people unfairly; benefitting disproportionately from the work they've done.	Enlightenment	A state of spiritual awakening and the gaining of a deeper understanding of reality.	
Fair pay	Payment that is appropriate for the work done.	First cause argument	An argument suggesting that God's existence can be proved by logical argument and the evidence of a universal chain of	
Freedom of religious	The right to freely practice religion without discrimination or punishment; e.g. being able to freely attend your place of		causes and effects. Therefore, the universe requires an uncaused cause at the start, which must be God.	
expression	worship or being allowed space / time to pray in the workplace.	General revelation	Indirect revelation; the idea of being able to see something o God through nature and scriptures which are readily	
Human rights	The rights a person should be entitled to simply because they are a human being, eg education, fair treatment etc.		available in everyday experience.	
Interest	Money paid back on loans in addition to the original amount borrowed.	Immanent	A characteristic of God; the belief that God is present and involved in the world, (eg through special revelations/miracles).	
People trafficking	Illegal transport of people from one country or area to another, often resulting in forced labour or sexual exploitation.	Impersonal	A characteristic of God; the belief that God is beyond human understanding.	
Positive discrimination/act	Positive discrimination is favouring a person or group to try	Personal	A characteristic of God; belief that humans can build relationships with God.	
ion		Revelation	When God is revealed to humans; can be special or general.	
Social justice		Special revelation	Direct revelation; God being revealed directly to an individua or group through experiences such as visions.	
		Transcendent	A characteristic of God; belief that God is outside space and time.	
		Vision	An experience of seeing/experiencing something in the imagination or through a dream.	



Exam Paper Information





LENGTH

1 hour and 45 minutes Spent 25 minutes on each section

CONTENT

Christian Beliefs and Practice Islamic Beliefs and Practice



LENGTH

1 hour and 45 minutes Spend 25 minutes on each section

CONTENT

St. Mark's Gospel Themes

Marks	Advice	Time
1	Tick the box with the correct answer	30 sec
2	Give two simple points (bullet points are accepted)	30 sec
4	Give two developed points	4 mins
5	Give two developed points and a reference to religious texts (Remember to use the correct phrase: "In the Bible it says/In the Qur'an it says")	5 mins
12	Give a brief introduction - "I am going to argue that" Give evidence for/against the statement, including evidence from religious texts and make use of religious concepts Give arguments against the evidence you have presented DO NOT GIVE non-religious arguments Give a reasoned conclusion	15 mins

Marks	Advice	Time
1	Write the letter next to the correct answer	30 sec
2	Give two simple points (bullet points are accepted)	30 sec
4	Give two developed points	4 mins
5	Give two developed points and a reference to religious texts (Remember to use the correct phrase: "In the Bible it says/In the Qur'an it says")	5 mins
12	Give a brief introduction - "I am going to argue that" Give evidence for/against the statement, including evidence from religious texts and make use of religious concepts Give arguments against the evidence you have presented Give non-religious arguments as part of your evidence Give a reasoned conclusion	15 mins

GCSE RS

YEAR 11 TERM 3

Control of the Body

Message to brain Major En	Male Female		The maintenance of a constant internal environment	
Relay neuron		Central nervous system (CNS)	The brain and spinal cord. Sometimes referred to as the coordinator	
Pituitary gland Thyroid gland	Pituitary gland		Nerve cells – they link receptors and effectors to the CNS. Sensory neurons carry impulses from receptors to the CNS, relay neurons carry an impulse within the CNS and motor neurons carry the impulse from the CNS to an effector	
Corpus albicans	Adrenal gland Pancreas	Recentor	A cell or group of cells that detect a change and generate a nervous impulse	
и) 9		Effector	A muscle or gland that brings about a response	
Adren al gland		Synapse	A gap between neurones	
			Chemicals which diffuse across the synapse and initiate a nervous impulse in the next neurone	
		Reflex response	An automatic response that you do not think about	
Menses 28 days		Reflex Arc	The pathway of neurons in a reflex arc	
• •		Oestrogen	A female sex hormone produced in the ovaries that controls puberty and prepares the uterus for pregnancy.	
er of hormones, including T	SH, FSH and LH	Progesterone	A female sex hormone produced in the ovaries that prepares the uterus for pregnancy.	
• • •	to glycogen and	Testosterone	A male sex hormone produced in the testes that controls puberty.	
soluble molecule made from	n many glucose	Follicle stimulating hormone (FSH)	A hormone produced by the pituitary gland that causes an ovum to mature in an ovary and the production of oestrogen.	
mone produced in the panc		Follicle	A structure in an ovary in which an ovum (egg) matures.	
Glucagon blood glucose by breaking down glycogen stored in the liver		Lutenising hormone	A hormone produced by the pituitary gland that stimulates ovulation.	
A homeostatic mechanism by which the body detects a change and makes an adjustment to return itself to normal		Contracention	Hormonal or non-hormonal methods of preventing pregnancy, including oral contraceptives, injection, implant or skin patch, barrier methods, intrauterine devices, spermicidal agents, abstaining and	
Type I Diabetes A medical condition that usually develops in younger people, preventing the production of insulin			surgical methods	
A medical condition that usually develops in later life,		IVF	In Vitro Fertilisation uses hormones to stimulate the maturation of eggs which are collected and fertilized outside of the body before the embryos are implanted into the uterus.	
	Relay neuron Pituitary gland Thyroid gland Thyroid gland Adrenal gland Testis Cture in the body that production ther of hormones, including T mone produced in your brain the er of hormones, including T mone produced in your para glucose by converting it into g it in the liver soluble molecule made from ules mone produced in the pance glucose by breaking down er none produced in the pance glucose by breaking down er hormone produced in the pance hormone pance hormone pro	Relay neuron Pituitary gland Pituitary gland Pineal gland Thyroid gland Pancreas Adrenal gland Pancreas Testis Pancreas Curre in the body that produces hormones haster gland in your brain that produces a er of hormones, including TSH, FSH and LH none produced in your pancreas that lowers glucose by converting it into glycogen and git in the liver soluble molecule made from many glucose glucose by breaking down glycogen stored in er hone produced in the pancreas that raises glucose by breaking down glycogen stored in er hone produced in the pancreas that raises glucose by breaking down glycogen stored in er hone produced in the pancreas that raises glucose by breaking down glycogen stored in er hone produced in the pancreas that raises glucose by breaking down glycogen stored in er hone produced in the pancreas that raises glucose by breaking down glycogen stored in er hone produced in that usually develops in later life,	Male Female Central nervous system (CNS) Neurones Neurones Adrenal gland Pancress Adrenal gland Pancress Testis Ovary Testis Reflex response Reflex Arc Reflex Arc Current in the body that produces hormones Oestrogen raster gland in your brain that produces a Progesterone er of hormones, including TSH, FSH and LH Progesterone none produced in your pancreas that lowers Policile stimulating glucose by converting it into glycogen and glucose Follicle glucose by breaking down glycogen stored in er Follicle none produced in the pancreas that raises Follicle glucose by breaking down glycogen stored in er Follicle ical condition that usually develops in younger Contraception ical condition that usually develops in sulin Contraception	

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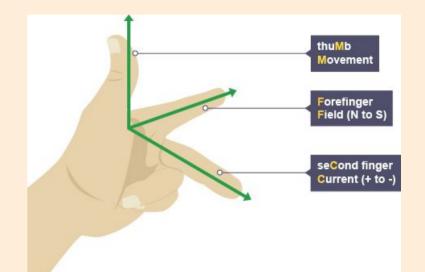


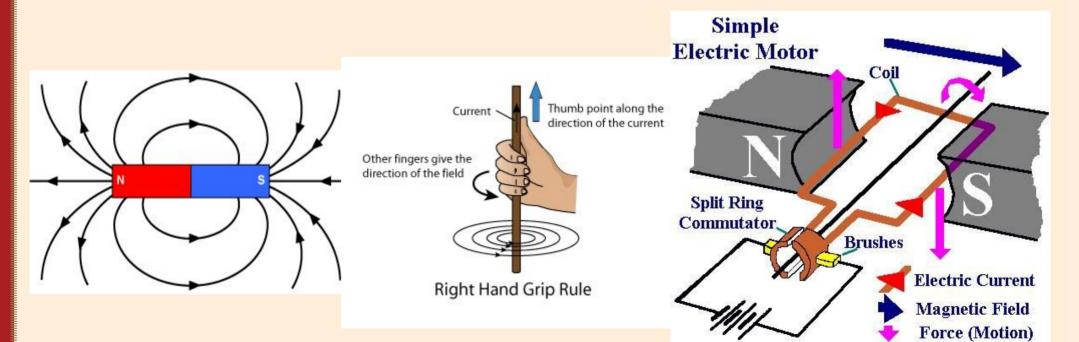
Magnetism

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Magnetic Materials that are attracted by a magnet.				
	A magnet which produces its own magnetic field. It always has a north and a south pole.			
lindliced madnet	A magnet which becomes magnetic when it is placed in a magnetic field.			
	A way to work out the direction of the magnetic field in a current-carrying wire if you know the direction of the current.			
Solenoid	A solenoid is a long coil of wire.			
	The number of lines of magnetic flux in a given area. F=B x I x L Force = magnetic flux density x current x length			
Motor effect	The force produced between a conductor carrying a current within a magnetic field and the magnet producing the field.			







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Organic and Earth Chemistry

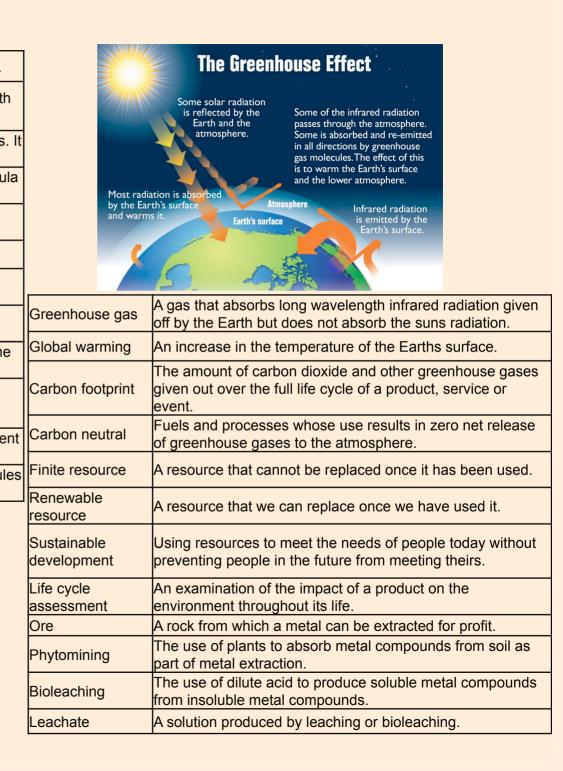
Hydrocarbon			A compound containing hydrogen and oxygen only.		
			A homologous series of saturated hydrocarbons with the general formula $C_n H_{2n+2}$.		
	Saturated		A molecule that only contains single covalent bonds. I contains no double covalent bonds.		
	Homologous Serie	es	A family of compounds with the same general formula and similar chemical properties.		
	Fractional Distillation		A method used to separate miscible liquids with different boiling points.		
	Fraction		A mixture of molecules with similar boiling points.		
	Complete Combustion Flammability Viscosity Alkenes Unsaturated Polymer		When a substance burns with a good supply of oxygen.		
			How easily a substance catches fire; the more flammable, the more easily it catches fire.		
			How easily a liquid flows; the higher the viscosity the less easily it flows.		
			A homologous series of unsaturated hydrocarbons with the general formula $C_n H_{2n}$		
			A molecule that contains one or more double covalent bonds.		
			A long chain molecule in which lots of small molecules (monomers) are joined together.		
		Crude C	Gas 20°C 150°C Gasoline 200°C Gasoline (Petrol) Kerosene 300°C C C Diesel Oil 370°C		

FURNACE

Fuel Oil

Lubricating Oil,

Paraffin Wax, Asphalt

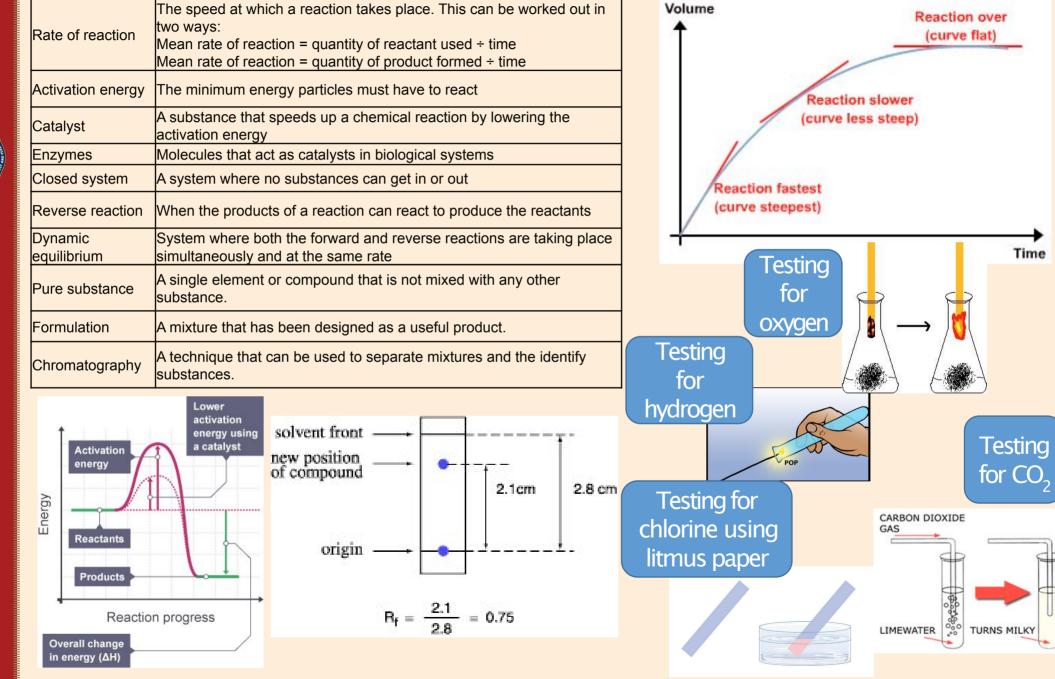


YEAR 11



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Rates and Chemical Analysis





YEAR 11

SCIENCE BIOLOGY

Variation and Ecology

Asexual	Reproduction involving one parent, giving genetically	Population	The total number of organisms of the same species in an area.
reproduction Selective	identical offspring A process by which humans have chosen organisms to	Community	Populations of different species living in the same area.
breeding	breed together to develop desirable characteristics	Competition	The contest between organisms for resources.
Artificial selection	Another name for selective breeding	Interdependence	All the organisms in a community depend upon each other.
Meiosis	Cell replication that produces four non-identical cells with	Abiotic	The non-living parts of the environment.
Conomo	half the number of chromosomes. One copy of all DNA found in your diploid body cells	Biotic	The living parts of the environment.
Genome		Invasive species	An organism that is not native and causes negative effects.
Genetic Engineering	Modifying the genome of an organism to give a desired characteristic	Ecosystem	The interaction of a community of living organisms and the non-living parts of the environment.
Evolution	The theory first proposed by Charles Darwin that the different species found today formed as a result of the		An advantage to an organism as a result of the way it is formed eg streamlining.
	accumulation of small advantages that were passed on through generations		An advantage to an organism as a result of its behavior.
Double helix	The characteristic spiral structure of DNA	Functional adaptation	An advantage to an organism as a result of a process eg
Gene	Gene A section of DNA		Venom.
Chromosome	A bundle of DNA	· · ·	An organism that lives in an extreme environment. Recording a small amount of information to make wider
Mutation	A permanent change to the DNA, which may be advantages		conclusions.
		Quadrat	A square frame used in sampling.
Alleles	Two versions of the same gene, one from each parent	Transect	A line along which systematic sampling occurs.
Genotype	The genetic make-up of an organism represented by letters	Producer	An organism that photosynthesises eg plant.
Phenotype	The physical characteristics of an organism	Biomass	A resource made from living organisms.
Homozygous	Two of the same alleles		An organism which eats other organisms. Primary consumers
Heterozygous	Two different alleles		eat plants, secondary consumers eat herbivores, tertiary
Cystic Fibrosis A genetic disorder in which sufferers inherit recessive alleles			consumers eatc carnivores.
(CF) from both parents and have excess mucus in their lungs		Biodiversity	A measure of the different species present in a community.
Polydactyly	A genetic disorder caused by a dominant allele in which sufferers have extra fingers or toes	Sustainable	An activity that can continue without damaging the environment.
	Mother Image: F = cystic fibrosis allele Parent 1 Parent 2 X X Ff Ff possible gametes F (f) (f)	Conservation	Protecting an ecosystem or species from reduced numbers and often extinction.
Father	XX XX XY XY possible combination of alleles in offspring FF Ff FF Ff		

cystic fibrosis

parrier

carrier

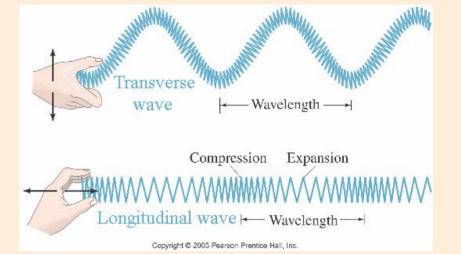
normal

Waves

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••	

Transverse	A wave in which the vibration causing the wave is at right angles
wave	to the direction of energy transfer.
Longitudinal wave	A wave in which the vibration causing the wave is parallel to the direction of energy transfer.
Amplitude	The height of the wave measured from the middle (the undisturbed position of the water).
Wavelength	The distance from a point on one wave to the equivalent point on the next wave.
Frequency	The number of waves produced each second. It is also the number of waves passing a point each second.
Period	The time taken to produce one wave.
Angle of refraction	The angle between the refracted ray and the normal.



 $v = f x \lambda$.

velocity = frequency x wavelength.

