BTEC Tech award in Performing Arts DRAMA – component 2 knowledge organiser

What will I	The Skills and techniques needed as to be an actor
be learning?	How to self-evaluate your self
How will I be	You will be developing your skills through teacher led workshops
learning~?	You will then use those skills in rehearsals for a play and continue to develop them. The rehearsals will be a combination of teacher led and student led.
	You must then demonstrate those skills in your final performance
	Throughout the whole unit, you will keep a log book in which you will write about the development of your skills; what you have done well, what you need
	to improve on, set targets and then whether you have met those targets or not.
What will my	A reflective log book/journal
evidence	Videos recording of your workshops
look like?	Videos recording of your rehearsals (milestones only)
	Videos recording of your final performance
Where can I	The component 2 assignment brief (TEACHER TO INSERT HERE WHERE THIS CAN BE FOUND)
find	The spec – https://qualifications.pearson.com/content/dam/pdf/btec-tec-awards/performing-arts/2017/specification-and-sample-
information?	assessments/9781446939628_BTEC_L1L2_AWD_PA_SPEC.pdf
	GCSE bitesize drama - https://www.bbc.co.uk/bitesize/subjects/zbckjxs

	How do I achieve in this unit?						
	PASS	MERIT	DISINCTION				
Workshops	Develop your acting skills appropriately	Develop your acting skills effectively	Develop your acting skills with discipline. Be				
•			organised at all times!				
Rehearsals	Choose relevant skills during rehearsals for	Choose appropriate skills during rehearsals for your	Choose considered (and thoughtful) skills				
and	your character and play and demonstrate	character and play and demonstrate them within your	during rehearsals for your character and play				
	them within your performance	performance	and demonstrate them within your				
Performance			performance				
Log books	Describe your strengths and weaknesses	Explain your strengths and weaknesses (what and	Assess your strengths and weaknesses (what,				
	(what)	why/how)	why and how plus the impact on yourself				
			and/or the audience)				

Assessment word	definition
Describe	Give a clear description that includes all the relevant features - think of it as 'painting a picture with words'
Explain	Set out in detail the meaning of something, with reasons. More difficult than describe or list, so it can help to give an example to
	show what you mean. Start by introducing the topic then give the 'how' or 'why'.

assess Give careful consideration to all the factors or events that apply and identify which are the most important or relevant; Make a judgement on the importance of something – similar to evaluate

KEYWORDS AND SKILLS

TEACHERS – PLEASE TAKE OUT OR ADD ANY SKILLS YOUR ARE NOT FOCUSING ON IN YOUR WORKSHSOPS ETC. I have simply selected the most common ones.

WORKSHOP SKILLS		REHEARSAL SKILLS		PERFORMANCE SKILLS	
SKILL	Helps and hints to do well	SKILL	Helps and hints to do well	SKILL	Helps and hints to do well
characterisation	There are many ways an actor can change themselves to become another character; the way they walk, talk and move.	learning dialogue	Remembering your lines and meeting deadlines to learn lines when expected	Characterisation	Ensuring you have changed how you walk, talk and move and are consistent with this throughout.
Facial expression	The look on your face which shows emotions	learning blocking and stage directions	Remembering your movement as well as your	projection	Ensuring the audience can hear you at all times
Gesture	Any action from the actors head, shoulders, arms, head, leg or foot to convey meaning		exits, entrances and where you are meant to be on the stage at particular moments of your script.	Vocal expressions	Ensuring you are using your voice correctly for the character, scene and mood/emotion; using tone, pitch, volume, pace etc
Projection	Directing the voice out of the body to be heard at a distance; make sure you can be heard on stage at all times	cooperation	Working together	Physical expression	Using body language, gestures, facial expressions etc to portray emotions and your character.
breath control	Using your diaphragm to fill your lings with air and release gradually; to assist with projection	punctuality	Turning up on time (early would be even better!)	Conveying the style	PLEASE ADD IN THE STYLE YOU ARE FOUCSING ON HERE AND HOW TO PORTRAY IT
pitch	the particular level (high or low) of a voice; this is relevant to the character your will be playing	commitment	Being fully dedicated to the rehearsal process	handling and use of props and set	Using props and set appropriately, safely and confidently throughout the performance.
pace	The speed at which the actor speaks or moves to portray their character	reliability	Being ready to work at all times	focus	It is vital to remain focused at all times; concentrate, commit and be dedicated to your role the play and your team!
		interpreting and developing a character	To consider the character inside and out and have a true and full understanding of the character in	Remembering lines	Not only knowing your lines, but also knowing your cues

	all situations and outcomes as well	
	as in the play	

Vocal Skills

Articulation – the clarity or distinction of speech Projection- how well the voice carries to the audience. Pitch – level of voice e.g. high or low Pace – speed/rate of speech e.g. fast or slow Pause – choice of breaks in speech Tone – choice of the mood or emotion of delivery Inflection – change in pitch or loudness of the voice. Volume – continuum of loud to quiet

Physical Skills

Pace – speed e.g. fast to slow Direction – up/down, side to side, backwards/forwards Size – continuum of big to small Control – continuum of stable to unstable (e.g. staggered) Orientation – choice of where the body is facing Spatial behaviour (proxemics) Facial expression Gesture- hand, head or arms actions to communicate meaning Posture- How you stand

Y10 GCSE Polyblock Printing ART & DESIGN A technique where the artist carves an image into a				Assessr	nent obj	ectives 🖉	HS	
These are the information that	e skills & the key at you will need to	 polystyrene sheet producing a white line when rolled with ink can be used for more than one 			AO1 Understanding	Develop ideas demonstrating sources	through investigation g understanding of	ns,
know & use i Pr	n your 'Culture' oject	Example polyblock	AL		AO2 Creative Making	Refine work by experimenting materials, tech	y exploring ideas & g with appropriate me hniques & processes	edia,
I Colour V I Tertiary colours = I	Vocabulary I Primary + Secondary	I Colour			AO3 Recording	Record ideas, relevant to int progresses	observations & insigh entions as work	nts
Complimentary – Colours opposite each other on the colour wheel Harmonious – Colours from the same		3D Construction of Pot		I T 3D sel	AO4 Presenting	Present a pers response that demonstrates language	onal and meaningful realises intentions & understanding of vis	ual
well Warm colours Cool colours	 red, orange, yellow blue, green, purple I 	Balloon, gumtape (3 x layers), thin card and masking tape Consider the handles, lip, decorative elements, symmetry, asymmetry & traditional African shapes and repeat patterns	1 - sketch outline to get proportions 2 - use tones to get lighter/darker areas and make objects appear 3D 3 - use rubber to add highlights		 Start with lighter add darker colo amounts Harmonious col better Paint should be palette before the palette before the form one colour the part 	Blending Tech est colour and ur in small ours blend mixed on a blending th transition r through to	niques	
Key Terms	1							
Media	The substance that artists use to make art							
Repeat pattern	horizontal.							
Decoration	The activity of making something look attractive through adornment or embellishment							
Collage From the French verb "coller" which means to glue. Using paper, fabric or other materials stuck onto another surface.			Elements of Art)NF				
Colour scheme	The overall selection of	colours in a piece of artwork (or colour p	palette)	S.	Repeat	TEXTURE	SHAPE PATTE	RN
3D construction	uction Sculptures (relief, freestanding), anything that can be held. It is not flat like paintings, drawings, photographs.							

Y10 GCSE CULTURE PROJECT

Artist Research Page TWISBOQ Title - Artist name Writing - Artist info 11 **Images** – Artist images Study – own copy of 11 artist's work Background – relevant to style & creative **Opinion** – own opinion of artwork



Angu Walters









Annotation = written explanations that
 record your thoughts and explain the thinking
 behind an idea or analyse a technique







Magdalene Odundo

African Masks



Key Words & Definitions Culture The ideas, customs, beliefs and social behaviours of a particular people or society Traditional Something that is in keeping with long-standing traditions, style or customs Masks Sculptures designed to represent or transform the human face for tribal reasons or rituals Handcrafted Made skilfully by hand rather than by a machine Artefact An object made by a human being typically one of cultural or historical interest Adinkra Asante people of Ghana in West Africa make a cloth **Symbols** called Adinkra. This involves handprinting patterns onto cloth. **Kente Cloth** A Ghanaian Textile made of interwoven cloth strips of silk and cotton Natural Any product that comes from plants, animals or found in the ground. materials **Mudcloths** "Bogolafini" is a handmade Malion cotton fabric traditionally dyed with fermented mud that dates back to the 12th century. **Textiles** A type of cloth or woven fabric **Ceremonies** Ceremonies have cultural or religious significance and are held to celebrate a new life or well lived life. Tribal A group or community with similar ancestors, customs or traditions Rituals A ceremony or action performed in a customary way **Ceramics** Pots and other articles made from clay hardened by heat **Body** Includes painting the body, tattooing, piercing, decorating, incision and scarification of the skin adornment

COMPUTER SCIENCE – Networks and Security

PROTOCOLS

Page 1

Key Term	Explanation		
Frequency and channels	Radio frequency of wireless (either 2.4 or 5ghz). Channels are sub-frequencies on the waveband like different channels on a TV.		
Encryption	Scrambling data so that only a user with the key can unscramble it.		
IP address	Each node on a network is given a unique 32 bit address (4x8bits) for example 192.168.0.1 There are 4 billion possible combinations.		
MAC address	media access control address. Unique number assigned to device at manufacture		
Ethernet	Wired data transfer protocol		
WIFI	Wireless protocol for connection to a network		
TCP/IP	Transmission Control Protocol / Internet Protocol. A set of protocols that governs the transfer of data over a network		
НТТР	Hyper Text Transfer Protocol. Standards for transmitting webpages across the internet		
нттрѕ	Hyper Text Transfer Protocol Secure. Same as http but the s means SECURE.		
FTP	File Transfer Protocol. Used to directly send files from one node to another over the internet. Commonly used for uploading files to webservers.		
РОР	Post Office Protocol. 2Used by email clients to download email from the remote email server and save it onto the users computer.		
ΙΜΑΡ	Internet Message Access Protocol. An alternative to POP, allowing more control such as the complete control of remote mailboxes		
SMTP	Simple Mail Transfer Protocol. An old standard for transmission of email. SMTP can only be used to push mail to client machines, whilst both POP and IMAP are used by clients to retrieve mail		
Packet Switching	Moving packets of data across the internet via fastest route		

ENCRYPTION

Encryption is taking a message and changing the letters in such a way that it is not readable. The correct recipient knows how to unscramble the message and can read the text.

Modern encryption is 128bit and secure against brute force attacks

PUBLIC KEY ENCRYPTION

Public Key Encryption is a method of securely sending data over the internet. The recipient's computer uses an algorithm to produce 2 linked keys: a public key and a private key.

- 1. Alice (the sender) requests Bob's (the recipient) public key. This is shared.
- Alice uses Bob's public key to *encrypt* the message she wishes to send
- The encrypted document is sent over the internet – it is secure.
- When Bob receives the encrypted document he combines his public key with the secret private key. This allows the message to be decrypted and turned back into plain text

Asymmetric Encryption



COMPUTER SCIENCE – Networks and Security

KEY VOCABULARY		
Protocol	The rules and standards that are agreed in order to make it possible for different devices to talk to one another	
Layering	Rules organised into a distinct order in which they need to be applied	

WHY LAYER?

Layering allows problems to be broken down into small chunks, and then smaller solutions created to specific parts of the problem. These small parts interact in an agreed manner, allowing the solution to be built by different teams or companies.

Layering is not unique to computing. In the car industry, a Ford engine might be used with a Jaguar gearbox in a Mazda car. By separating these 'layers', but agreeing on the interface between the layers, each company is free to develop their layer as they see fit, without affecting the other layers. It is also possible to swap one layer out, and replace it with another one - such as swapping an engine for a more powerful one.

This interoperability is important as it allows data (in computing) to be passed from one layer to the next.

Page 2

TCP/IP Protocol Layers

LAYER 1: Application This layer ensures data is produced in a form that is acceptable to the application that will use it, such as web-browsers or email clients. This is where IMAP or HTML protocols would be used. LAYER 2: Transport This layer establishes the connection across the network. The transmitting device agrees with the receiving device the speed or data transfer, the size and number of packets and any error checking to be used. This layer uses TCP protocols LAYER 3: Internet This layer is concerned with transmitting the data across different networks. It identifies the destination and establishes the path the data will take between nodes. It uses IP protocols LAYER 4: Network This layer deals with the physical transmitting of the data. It converts the data into binary electronic signal that can be understood by the network hardware. It uses protocols such as Ethernet or 802.11 (wireless) so the signal is hardware independent and can use any available compliant physical medium, such as UTP or fibre optic wire. Data transfer occurs by LAYER 1 LAYER 1 breaking the file into small packets, adding each layer LAYER 2 LAYER 2 to the packet in order at LAYER 3 LAYER 3 the sending device, then decoding in reverse order

Physical connection (wired/wireless)

at the receiving device before rebuilding the file.

Packet switching is the process that modern networks use to send large data between devices. The data is split into small *packets* and numbered. The packets can travel by any route to the destination where the receiving machine reassembles them into the correct order.

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The Internet

	KEY VOCABULARY		
WAN	Wide Area Network		
VPN	N Virtual Private Network		
Client	The user machines on a network		
Server	The central 'controller' machine on a network, including main data storage		
Internet	A worldwide network of networks		
DNS	Domain Name Server		
Hosting	Storing a file on a web-server for access via the internet		
Cloud	A service which is stored remotely		
TCP/IP	Transmission Control Protocol / Internet Protocol. These are the standards that allows network nodes to communicate with one another on the internet		
WWW	World Wide Web - Pages of content		
email	Electronic mail, sent through the internet		
URL Unique Resource Location			

Virtual Private Networks

VPNs are small collections of devices that act as though physically connected in a LAN, but are actually widely distributed and use a the internet as their network connections.

VPNs allow users to store data in a small, private area of the internet, so they can get to it at any time, using an internet connected device.

The benefits are low cost and widely available data, but users must ensure that the data is protected as, without security, their data is available to anyone connected to the internet!

How DNS works

All webpage has an **IP Address** which is a unique reference to find that page. But 87.245.200.153 isn't as easy for users to remember as google.com

When the user types google.com into a web browser's address bar, the client sends a request to the DNS for the current location of google.com. The DNS returns the request, telling the browser to go to 87.245.200.153. The browser now connects to the google server, at the IP address given, and looks for the index.html file to start displaying the webpage.





The Cloud

As our devices are all connected to the internet, they start to become client nodes in a web connected "cloud" network. It's called cloud because your data, services and applications are available everywhere without wires. It's just 'there' – like a cloud. PCs like the Google Chromebook utilise the cloud to provide very cheap, very fast hardware, which just connects you to the internet. All the storage, applications and communication is done by services hosted on google's servers.



Topology

	Topology means "how a network is laid out and the connections between computers"					
NAME	DIAGRAM	RAM DESCRIPTION ADVANTAGES		DISADVANTAGES		
Star		Each node connects to a hub or switch. A central machine acts as server whilst the outer nodes are clients.	Centralised management through the server Easy to add more machines to the network If 1 machine fails, the others are unaffected	Potentially higher set up costs, especially in server and switch set ups. Central server determines the speed of the network and the number of possible nodes If the server fails then the network fails		
Mesh	Persa-Real Topology	Every nodes is interconnected with every other, allowing for distributed transmission. Mesh topology can be FULL MESH (where every possible connection is made) or PARTIAL MESH (at least 2 computers are connected with multiple links)	Multiple devices can transmit data at once, therefore can handle large amounts of data A failure of 1 device does not affect the rest of the network Adding devices does not impact on data transmission between existing devices	Cost is higher due to increased hardware requirements Building and maintaining a mesh network is costly and time consuming The chance of redundant connections is very high, which increases the cost, and makes the network cost inefficient		

NODE = Each point on the network.

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VULNERABILITIES				
Hacking	Attempting to bypass a system's security features to gain unauthorised access to a computer			
Malware	Malware is malicious software, loaded onto a computer with the intention to cause damage or to steal information. Viruses are a type of malware			
Phishing	Phishing is a common way to try to steal information like passwords. Emails are sent, requesting the user logs into a website, but the site is a fake, and the users details are logged			
Social engineering	People are the weakest point of any system. If a hacker can convince a user to give over their data, this is the easiest way into a secure system			
Brute force attack	Using and algorithm to try every possible combination of characters to 'guess' the users password.			
Data interception	Data interception, or <i>Man in the Middle</i> attacks are hacks that use 'packet sniffer' software to look at every piece of data being transmitted in the local area to find ones that meet the hacker's criteria. Often done by creating 'fake' wireless networks to record users details			
SQL injection	Using SQL statements to trick a database management system (DBMS) into providing large amounts of data to the hacker			
Denial of Service Attack	Hackers flood a network with huge amounts of fake data and requests in an attempt to overload the system so that it crashes			

PROTECTIONS

Penetration Testing	Employin good the before the	g a <i>white h</i> security is. ey become	at hacker to try to break into a system to test how Any problems in the security can then be fixed vulnerable to real attack			
Network forensics	Network p events to	procedures discover th	that capture, record and analyse all network the source of security attacks			
Network Policies	Rules wh	ich govern	how a network may be used – see over page			
Anti-malware software	Software for known quarantin infection. malware i	which anal malware s ed, and eith Needs upd is being ch	yses files, network traffic and incoming data to look such as viruses or worms. An infected file is her cleaned or securely deleted to prevent further lating very regularly to ensure that the newest ecked for			
Firewall	A firewall network t	protects a raffic is legi	system by checking all incoming and outgoing timate			
Limiting An admin User level access admins of instead h high level		he access o will have n o not give t ave a <i>supe</i> jobs.	of a user by their requirements to carry out their job. nore rights than a student, for example. Often even hemselves full rights to prevent accidents, and will <i>r-user</i> account that will be used only for special			
encryption	Encoding if data is s	all data wi stolen, it ca	th a secure private, asymmetric key system, so that nnot be read or used.			
PEOPLE ARE ALWAYS THE WEAKES COMPUTER SYSTEM!	T PART OF A		TYPES OF MALWARE			
		Virus	A program designed to infect a computer, then copy itself. Requires human 'help' to spread; usually through infected software being installed or spread through unsecure removable media such as usb-drives			
		Worm	A self-replicating program, which can run itself allowing it to spread very quickly			
		Trojan Horse	A program which disguises itself as legitimate software, and appears to perform one task, but is actually performing another			
YA I		Ransomware	Ransomware secretly encodes a users data and files, then offers to un-encode the files if a large amount of money is paid to the hacker			
		Rootkit	A rootkit allows a hacker to gain full, and often repeated, control of a computer, including the host operating system, which helps the hacker avoid detection			

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	COMMON AREAS OF NETWORK POLICY		
Acceptable Use	Jse Governs the general use of the computer system and equipment by employees. Usually limited to that which is required to carry out only the tasks that a user is employed to undertake		
Rules to ensure that passwords are strong enough to prevent gues or brute force attack - often requiring the use of upper and lower ca Passwords letters, numbers and special characters. Also usually a minimum length is required. Passwords usually have to be changed on a required.			
Email	Governs what may and may not be sent by email		
Web Access	The configuration of web browsers may limit the types and categories of website that can be accessed		
Mobile Use	What devices are and are not allowed to be used		
Remote Access	Govern what can be accessed from outside the system, and what can only be accessed onsite		
Wireless	Govern how wireless access points (WAPs) are secured, who has access, and under what circumstances		
Software	Governs who can install software, and which users are able to use that software. May have different levels of access once inside the software		
Server	Rules about what services are provided by the institution and who may access data stored centrally and for what purposes		
Back up policy determines how frequently back ups are undertated and what type of back up (full, incremental, differential). It will all state where the back up media must be stored and for how long a full weekly back up is required to be stored in a fire proof box offsite location			
Incident Response Plan	Details what to do if something goes wrong, or if an attack is discovered.		

HOW SECURE IS MY PASSWORD?

It would take a computer about



Even modest desktop computers can undertake billions of cycles a second these days. Therefore, without any security features, such as limited password attempts, or asking for only selected characters from a password, a home PC could *brute force crack* commonly used passwords in very, very short periods of time!

WHAT IF I TOLD YOU

"THE CLOUD" IS JUST SOMEONE ELSE'S COMPUTER.

Network Policy

Component 1- Key Terminology

Key	Meaning/Definition
Terminology	5
Professional Practitioner	This is usually someone in the performing arts industry that is paid for their expertise. A Practitioner in drama could be a playwright/someone that creates theatrical performances or a person that has developed a system or theatrical discourse. For dance this is usually a choreographer or a person that has developed a whole new style of dance e.g. Cunningham or Graham
Creative Intention	This is the thinking, the decisions that a theatre maker or choreographer apply so their pieces will have meaning and will communicate. Without this, and a target audience, a piece lacks purpose.
Roles and Responsibilities	This is what is expected of you as a professional within the team that is creating and performing work. Role – dancers' part in the piece Responsibilities - attend rehearsals / warm up
Influence	All artists are influenced by something. This could be from their training, their peers, when they are born, their interests and even political ideals. It is something outside that has an effect on you and your creative work. E.g. Matthew Bourne is influenced by Musicals
Purpose	This is the reason for which something is done or created or for which something exists. The purpose could be to change an audiences mind about something, to encourage a feeling, to question or just to purely entertain.
Performance Processes	This is the series of actions that are taken as you prepare for, create, rehearse and perform a piece of dance or theatre.
Theme	This is the main idea that spans an entire work. There maybe lots of other ideas, influences and inspirations within a piece but what is the whole piece about. The title of a piece is often the biggest clue.
Practitioner Skills	What skills does each job role require, for example what skills does a dancer need? what skills would a choreographer need?
Techniques and approaches used during performances	In Dance this could be the ways you warm up, the styles of dance you use to train, the way you create and rehearse pieces.

Constituent Features	Characteristics of choreography such as style, stimulus, subject matter, number/gender of dancers, action content, choreographic principles, form and structure, physical and aural settings. This is the parts that make up the whole. In Dance appreciation this is the movement material, who and where it is danced, its meaning, the formations, as well as physical setting -the set, props, lighting and aural setting the music or sounds. When looking at the work as a whole this could also mean the people involved, their creative processes, their rehearsal processes, their collaborative approaches and the final outcome.
Interrelationshi ps	This is the way in which each of two or more things is related to the other or others. How does the set change how we view a piece? How do the dancers on stage relate to each other unison, canon, lifts, eye contact?
Stimulus	This is something that arouses activity or energy in someone or something, a spur or incentive. Something that evokes and/or inspires.
Contextual Influences	The outside factors that can be seen within a piece. E.g., the year it is set, where it is set, the political message, the style of dance or theatre used, the set, the fashions, the use of technology. Context could be: E.g. For the dance piece 'Coal' it was set in the 1980's during the miners strike.
Stylistic Qualities	These are the dynamics applied to a style. Not to be confused with stylistic features.
Genre/Style	a style or category of art, music, or literature. A genre is usually a bigger term to describe the majority and the style can be identified by its features. E.g. Musical Theatre is a Genre – but Jukebox, Concept are styles. Or Modern Dance is a genre and Graham and Cunningham are styles of that genre.
Repertoire	a stock of plays, dances, or items that a company or a performer knows or is prepared to perform. This can also be the steps, sequences that are choreographed by a professional for a particular show. It can also be a complete script.

Creative Methods	These are the methods you use when you create a performance. Some choreographers research, find music, make scrap books, listen to music, set creative tasks, film and revisit to edit and refine.
Interpretation	This is what you as an audience take away from watching a piece of dance or theatre. What did it mean to you and what clues have you got to back up your interpretation.
Collaboration	This is the action of working with someone to produce something. Working as a team where no one is directly in charge but all ideas are considered and valid.
Prerequisites	A thing that is required as a prior condition for something else to happen or exist. You need to get the planning right to be able to create a piece for it to happen on time. Look at the resources needed.
Choreographic process	How you create, select, refine, rehearse and perform (start to finish) E.G Researching – collecting ideas Planning Setting tasks Improvising Generating movements and ideas Selecting and refining Developing Structuring Refining and synthesising Rehearsal techniques

Physical skill		Why it is needed by a dancer	Development ideas
Posture	To hold the correct stance: Shoulders back, chin level, stomachs pulled in engaging core	 Reduces injury Improves the quality of actions Looks more aesthetically pleasing for audience 	 Increasing core strength through exercises e.g pilates, sit ups, plank position Sliding shoulder muscles and bones down the back Lengthening the spine Not tilting pelvis
Strength	Muscular power	 Performing lifts Higher jumps Holding positions/balances Making movements look more stable and fluid Performing more challenging movements Core strength important for posture 	 Sit ups Press ups Plank positions Repetition of challenging jumps Weight training
Balance	Being stable whilst being still and during movement. Using core to manage weight placement	 You do not fall over and injure yourself You can perform lifts safely Movements are more aesthetically pleasing 	 Increasing our strength in particular areas (e.g a balance on one leg requires strong thigh and calf muscles) Continuous rehearsal of balancing movement Using imagery such as roots holding your feet into the floor an a balloon lengthening from the top of the head
Alignment	Correct placement of joints: Skeleton lined up from head to toe e.g. Knees bent over toes, allow back to have natural curve, not forced	 It reduces the risk of injury It makes the actions more aesthetically pleasing for the audience How can we improve our alignment? 	 Yoga Exercises such as pliés and tendus in parallel, first and second position making sure the knees go over the toes Exercises such as lunges making sure the knees go over the toes Arm exercises focussing on keeping the shoulders down and extending through the fingers
Flexibility	The range of motion around a joint	Can perform more challenging movements such as splits, tilts Reduces the risk of injury Movements are more aesthetically pleasing	 Stretching when we are warm for example Lunges, Splits, Touching toes, Hamstring and calf stretches

Physical skill	Definition	Why it is needed by a dancer	Development ideas
Extension	fully lengthening and stretching your limbs	It is more aesthetically pleasing for the audience Perform movements accurately	 Imagining something is pulling on your limbs to stretch them Watch rehearsals on video to see where you need more extension
Coordination	the ability to move different body parts at the same time	 Can perform more challenging sequences of movement using different body parts Fluency is improved Movement can look effortless 	breaking down the movements and practising each section or each body part separately and then together
Mobility	The range of movement in a joint; the ability to move fluently from action to action	 Makes dance looks more aesthetically pleasing Makes performance look smooth and fluid Can perform more challenging movements such as splits, tilts Reduces the risk of injury Movements are more aesthetically pleasing Fluency is improved 	Active stretches that move through a full range of motion e.g. hamstring slides, circular kicks
Isolation	An independent movement of part of the body	 Can perform more challenging sequences Makes dance looks more aesthetically pleasing Can execute stylistic features of a dance style Greater awareness and body control over muscle groups 	 Practicing a dance isolation front of a full-length mirror, so you can be sure that the majority of your body is stable. Use isolations to move merely a limb or whole sections of your body e.g. if you use your neck muscles to move your head from side to side, then that is a head isolation. keep the rest of the body stationary 2 video to check
Stamina	The body's endurance, the ability to perform for a long time.	You can perform for a long time. Your energy levels and technical ability won't decrease as you perform.	 Circuit training Cardiovascular training I running, cross training Improving fitness levels

Interpretative Skill	Definition	Why it is needed by a dancer	Development ideas
Facial Expression	Used during a performance to show off the emotions in a dance; e.g. smile, frown, shocked, sad, happy etc	 To make your performance seem confident To draw the audience in To give an engaging performance to the audience To portray a certain mood To portray a certain character To enhance the narrative 	 Practice the facial expression need for the dance in the mirror separately then add back into the dance
Use of Focus	Using the eyes to enhance the performance	 To enhance narrative To communicate a connection with another dancer To make your performance seem confident To draw the audience in to a specific area To enable good balance To create a clean performance for the audience 	 Use sticking notes to identify points of focus Add verbal prompts to remind focus points Video and check use of focus
Emphasis	Involves knowing what aspect of energy, space and time to accent at different moments	 To highlight specific actions/moments To add interest and variety To draw the audience in To give an engaging performance to the audience 	 Identifying specific movements that require emphasis Adding variety/impulse to highlight these actions
Musicality	Is a sense of rhythm and musical structure in a dancers movements	 To make your performance seem confident To draw the audience in To complement the climax and highlights in the music To emphasize accents within the music To complement melodies or instruments within the music To portray a certain mood 	 Listen to the first count of 8 in the music carefully and note down when counts are accented. E.g. 2, 3, 4, 5, 6, 7, +8 Clap out the rhythm emphasizing the accents. Identify the actions that occur on these counts make sure they are really clear
Projection	Involves throwing energy out of the body to give a quality of life to the movement	 To make your performance seem confident To draw the audience in To give an engaging performance to the audience 	 Take 1 count of 8 from the dance. Perform it as a whisper to the audience. Take the same count of 8 and perform as a shout to the audience. Consider the view you wish the audience to see. Check your facing, posture and focus to ensure you are projecting the energy into the correct place.
Dynamics Quality	How you perform a movement: fast slow, heavy, light Different types of energy; sustained, percussive, swinging, suspended, collapsed, and vibratory	 To draw the audience in To give an engaging performance to the audience To aid with the communication To add interest/variety 	 Create an energy graph of the professional example Compare to your performance, identify areas for development
Characterisation	Portray features of the character through physical and expressive skills	 To aid in the communication of the narrative To add interest and relevance to the performance 	Research the professional example Create an apply a character profile

Interpretative Skill	Definition	Why it is needed by a dancer	Development ideas	
Use of Space/Spatial Awareness	Consciousness of the surrounding space and its effective use	 To create effective formations For a dancer's own safety and safety of other dancers To use the performance space effectively to portray choreographic intention To ensure the performance is spatially pleasing to the performance 	 Begin in the starting position / formation of the dance. Practice the transition from the starting formation to the next ensuring not to collide with other dancers 	
Relationship to other Dancers Awareness of and connection to other dancers • For the day other wit To portra audience • To portra audience • To enhan • To enhan • To draw t • To draw t		 For the dancers to understand their relationship with each other within the narrative To portray the connection between the dancers to the audience effectively To enhance the choreographic intention To enhance the narrative To draw the audience in emotionally 	 Create a chart of relationships between dancers Highlight significant interactions between dancers and add emphasis at these points 	
Movement memory	The automatic recall of learned movement material, without conscious thought	To produce an effortless and faultless performance	 Apply variety of rehearsal techniques especially systematic repetition, mental rehearsal, slow mark 	

Rehearsal Techniques Systematic	Health and safety procedures	Behaviours and attitudes when working with others
 Systematic repetition Breakdown of parts Slow mark Skill mastery Mental rehearsal Video evaluation 	 Warm up/cool down Correct kit Suitable space Correct technical execution of complex skills Safe grip/exit/entry for 	 Cooperation being supportive listening to others punctuality consistency commitment reliability
 Peer feedback Corrections run through 	contact work Nutrition Hydration 	 being prepared being respectful of others' opinions and skills

Interpreting engineering drawings

Designers and engineers use engineering drawings to convey information and details about the product to be manufactured or constructed.

Engineering drawings include details such as:

- sizes of parts or elements to be made
- details on materials
- information on finishes
- various views of the product
- tolerances
- scale
- details of complex parts.



Scale informs the engineer what scale should be used when using the drawing. A scale of 5:1 indicates that the drawings are five times smaller than the original product should be. This allows engineers to take dimensions (sizes) directly off the engineering drawings. Care must be taken when doing this to ensure the correct scale is applied.

Finishes information gives details on what the finish of the part or product would look like, for example, a knurled finish on a tightening clamp.

Detail views are sometimes used by engineers to explain the details of more complex parts in an engineering drawing.

Title blocks are used to display key sections of information about the drawing, i.e. scale, who made the drawing, the date it was drawn, the drawing number.

Orthographic views are the standard views used to lay out a set of engineering drawings. They must conform to British standards (BS8888) to allow a common format of presenting information to various people such as manufacturers.

Section views show a drawing of a part that may have been cut through to allow the reader to see further details.

Isometric views are often used by engineers and designers to produce a three-dimensional representation of the product or part.

Interpreting engineering information

Engineers need to interpret the information found on engineering drawings to assist them in manufacturing.

The information should be used to identify key areas in preparation for planning such as:

Equipment that will be required to manufacture the engineered product.

Tools that will also be required during the manufacturing should be identified.

Tolerances are the minimum and maximum limit that a part can be outside of the stated dimension (size) on a drawing. For example, a part that is 20mm long with a tolerance of ±0.3mm would be acceptable if it was 20.3mm or 19.7mm when finally tested.



Presenting engineering information

Engineers and manufacturers need to know specific information about the product before they can manufacture it.

The people who will undertake the manufacturing must also understand specific details about how processes are carried out i.e.

- which speed should be used to drill a particular size hole in a particular material
- what speed is needed to cut a slot in a piece of aluminium
- which size hole should be drilled in a material to create a given thread size
- what finished must be applied to a material when it is manufactured
- what component parts are required in production (nuts, washers etc.).





Planning manufacture

Before any manufacturing can take place, a plan is needed to determine each stage or step of the process.

The plan should include:

- the materials to be used to produce the engineered product
- what equipment will need to be used
- what tools will be needed
- the sequence (order) that manufacturing needs to take place in.

The sequences need to consider in what order parts are manufactured, as some parts require others to be made to ensure they join correctly, etc. This is also known as prioritising.

Equipment selection

Equipment should be classed as any powered machinery that will be used in the production of an engineered outcome.

Equipment choices should give justifications for their selection and should refer to engineering drawings or other provided sources.

Typical equipment may include:

- centre lathe
- drills
- miller
- laser cutter
- bandsaw
- linisher
- brazing hearth
- buffer/polisher.

Tool selection

Tools should be classed as any hand tools that will be used in the production of an engineered outcome. These should also include marking and measuring tools.

Tool choices should be justified in the planning stages to explain why they were selected.

These include:

- scriber
- centre punch
- standard, internal, external and odd leg callipers
- soldering iron
- steel rule
- engineer's square
- file
- dividers
- micrometre
- vernier callipers
- rivet sets
- taps and dies
- hacksaw
- fretsaw
- pliers
- screwdriver.

Planning and sequencing

Plans for manufacture should be presented in a way which is easy to find key information at a glance. Planning information could include tables such as a GANTT chart or other lists or appropriate documents.

Manufacturers should be able to understand from the provided information, the sequence of manufacture and the time it should take to produce the part, which tools and equipment should be required for each stage and any processes such as the use of jigs or templates.

Planning and sequencing should also consider the use of CAM (where appropriate), including 3D printing and laser cutting.



Contingency planning

Planning should also include contingencies to overcome problems that may arise during production. What happens if a machine breaks down or people become ill?

Contingency planning should include ways that problems can be overcome, giving examples of scenarios and possible contingencies.



Typical engineering GANTT chart





WJEC Level 1-2 Engineering Unit 1: Health and safety, implementing engineering processes and evaluating quality

Health and safety

Assessing potential risks is a

process that is undertaken prior starting manufacture. It should identify what potential hazards and risks may be present. This should include both the working environment and the actual items of equipment to be used.

Deciding on control measures

should focus on stating how the identified risks and hazards can be mitigated (made safe). This should include detailing about guards on equipment and specific any hazards around the working environment.

Personal protective equipment should also be identified for manufacturing stages and should only include appropriate choices suitable for the individual task being undertaken.

Health and safety should also form a part of the overall planning stages.

Implementing engineering processes

This involves the physical making of an engineering product using a range of processes to produce a product or part. These can include:

Marking out is a process where the required shape is marked onto the stock material.

Cutting can occur using a hand tool like a hacksaw, sheers or snips saw or fretsaw, or using machinery such as a metal bandsaw.

Milling uses a milling machine to cult slots in blocks of metals, and to face off edges.

Finishing is applied at the end stage of production. It could include a range of finishes such as polishing, knurling, enamelling, electroplating or anodizing.

Shaping can involve the removal of materials, called wasting, using saws, files or grinding equipment.

Drilling is a process used when a hole is required in a material. Drilling can be done using a hand drill, or drill press/pillar drill.

Brazing typically involves a brazing hearth to braze metals together forming a permanent joint.

Turning uses a machine called a lathe that can be used to turn a piece of metal to create differently shaped round pieces. It can also be used to create threads and to apply different knurled finishes.

Joining metals can be done permanently using welding, brazing, epoxy resin adhesives and soldering. Temporary methods include nuts and bolts, hinges, screws and rivets.

Soldering is used to heat join softer metals such as silver in jewellery (silver solder) or to attach electronic components to printed circuit boards.

Forming is a process used to change the shape of the material, for example by bending, compressing or extruding.

Evaluating the quality of engineered products

Engineers, manufacturers and designers need to constantly evaluate stages of manufacture to ensure that outcomes are produced in line with the given criteria. Typical examples are:

Inspection techniques can combine a range of methods that can be undertaken to ensure that the product or part meets the set criteria. They could include visual inspection, looking for manufacturing defects or sophisticated digital scanning techniques, which assess accuracy to a minute detail.

Evaluating against engineering information requires checking against information obtained from engineering drawings. This could include checking sizes and finish details but also checking that the tolerances of the final parts are within the allowed parameters.



Evaluating against a success criteria requires the end product or part to be reviewed against information that may have been included in a brief or manufacturing specification.

Quality inspection can include inspection of individual parts as they are manufactured or as they are assembled on the completed engineered product.



Using engineering tools

Using engineering tools

Files are used to remove material from stock form of metals and plastics. This is known as wastage.

Scribers are used to mark lines for cutting on materials such as metals and plastics.

Centre punch is a tool that is used to create a small depression in material prior to drilling. This helps locate the drill accurately on the material.

Tap and die sets are used to created threaded components. A tap used to thread a hole and a die to thread a bar (i.e. a bolt).

Hacksaws are a framed saw used mainly to cut metal.

Rivet guns are used to place rivets in areas that are often accessible from one side. Traditional rivets use 'sets' to form the rivet on both sides of a joint.

An engineer's square is used in marking out material. It is set at 90° and is also used for parallel marking.

Callipers are used to scribe and measure on metals and plastics. Odd leg callipers can be used to scribe lined parallel to an edge, whilst straight leg callipers can be used to both mark equal distance sizes and produce arcs and circles.

Vernier callipers are used to measure a range of sizes such as length of material, depth of holes, internal openings, etc.

Micrometres are highly accurate measuring tools used to measure sizes, i.e. material width/thickness.

Reamers enlarge, smooth, or contour an existing drilled hole in a work piece for a precise fit when

installing fasteners or other parts in metalworking tasks.

Shears and snips are used to cut sheet metal. They may be straight or curved depending on the task.

Gauges are used in a variety of engineering manufacturing tasks such as centre gauges, which locate a centre on a metal bar, and thread gauges, which identify the size and pitch on a screw thread.

In addition to the examples above, tools can also include items used on items of equipment known as tooling:

Knurling tools are used to put a textured grip onto a metal bar using a lathe.

A **boring bar** is used to enlarge a drilled hole to a precise dimension. They are available for a lathe or a milling machine.

Parting tools are used on a lathes to form a narrow slot to assist in the removal of a work piece from the stock/waste material to remove.

Using engineering equipment

Commonly used items of equipment that you may find in a school workshop:

Centre lathe

- on a bar
- Applying a knurled finish
- Boring a hole
- Drilling along the centre axis line
- Cutting a thread onto a bar or into a hole.

Drilling machine

- Drilling holes using a range of drill bits
- Trimming off using a trimming tool, i.e. vacuum forming.

Miller

- material.

PCB tank

- a UV light box to prepare the PCB artwork.

Vacuum forming:

vacuum.





• Facing off is the process of levelling off the end of the material • Turning a taper causes a uniformed change in diameter over a set length

• End milling is used to create a profile in the work piece, including square End mills, ball end mills, finishing mills and corner rounding mills • Slot milling involves using a cutter, which cuts slots or groves into the

Used to produce printed circuit boards for electronic circuits • Uses a photographic and etching process and is used in combination with

• A process where a sheet of plastic is heated to a forming temperature, stretched onto a single-surface mould and forced against the mould by a



F	Context				
T4: 'Macbe	Jacobean era: Shakespeare wrote 'Macbeth' during the Jacobean era, which beg Elizabeth I, from 1603-25. King James I was Shakespeare's patron (he provided him writing plays) so the attitudes in the play are thought to have been heavily in witchcraft helps to explain the powerful presence of the supernatural in 'Maa and ordered several witch hunts during his reign, even producing a treatise on Demons'). The Witches' conspiracy against the monarchy was something that v	an when James I took over the crown in England from Shakespeare with financial support in exchange for influenced by the King. For example, James I's belief cbeth'. He was obsessed with magic and witchcraft witchcraft called 'Daemonologie' ('The Science of vould have instilled great fear amongst the audience.	Religion and the Divine Ri believed that to commit regi order. Jacobean audiences b Macbeth and Lady Macbeth punishment. Jacobean society was extrem claims life is "a tale told by a futile and meaningless solid	ght of Kings: (icide was to dis elieved people , having been j nely religious, l an idiotsignif ifies Macbeth's	originating in the Middle Ages, this belief was that the King was chosen by God. It was sobey the will of God and was therefore sacrilegious (a holy crime) and against the natural who committed regicide would be punished by God, and the mental decline of both plagued with guilt, is Shakespeare's way of showing that regicide does not go without believing life to be sacred and God to be the creator of everything. Thus, when Macbeth by nothing" a Jacobean audience would have been greatly shocked. This belief that life is s damnation by the end of the play.
The Great Chain of Being: Jacobean society had a strict hierarchy based upon the Great Chain of Being. This was a religious hierarchy where everything on earth was awarded a 'rank' or status. God was at the top, followed by angels, humans, animals and plants. Jacobean audiences believed that if this hierarchy was interfered with (i.e. a human tried to 'jump up' the ranks to the status of angels or God) then the natural order would be thrown into chaos. Shakespeare shows this on the night of Duncan's regicide when there is a violent storm. Macbeth's attempt to climb the Great Chain of Being disturbs the natural world.		The Gunpowder Plot : 1605, a group of Catholic conspirators plotted to assassinate King James I, planting explosives in the House of Lords during the opening of parliament. They hid kegs full of gunpowder in the cellars beneath the chamber where the king and the rest of the political elite would assemble. Enough powder was stored to completely destroy the building and kill everyone present. One of the conspirators, Guy Fawkes, was tasked with igniting this huge bomb. The plot was uncovered just twelve hours before parliament was due to open. However, the plot made King James nervous about future attempts on his life. 'Macbeth' shows that those who commit regicide are greatly punished and mentally tortured – a clear deterrent to any future plotters.			
Year 10 H	The supernatural and witchcraft: in England and Scotland, up until the 1700s, witchcraft (for example, in 1542, fifty years before Shakespeare wrote 'Macbeth Act, which officially made the practice of witchcraft punishable by death). It was community and that they could inflict diseases on people, spoil crops, bring abd detestable acts of the devil's work. The North Berwick witch trials took place in Lothian were accused of witchcraft. They ran for two years and implicated sever persecution in Scotland, and it was supported by James I.	there was a very strong belief in witches and ', King Henry VIII passed the first English Witchcraft as believed that 'witches' could be found within every out bad weather, and perform unspeakable and 1590 in Scotland, when a number of people from East enty people. This was the first major witchcraft	Attitudes to women: in the died), and then to their hush subservient to men – for exa within the home. Women w plays at the time were playe widely regarded as being ve who commands, instructs at time were accused of being	patriarchal soc pands. Women imple, they we ere not given t d by boys who rry limited. To nd manipulate witches.	iety of the Jacobean era, women belonged to their fathers (or their brothers if their father could not own property of their own. They had very few rights and were viewed as re only provided with a very basic education and often this was centred on mastering tasks he opportunity to work and they were not allowed on the stage. All the female parts in ose voices hadn't broken yet (the apprentices) and therefore the portrayal of women is an extent, Shakespeare subverts this through Lady Macbeth, a powerful female character s her husband. Many women who subverted expected gender roles or conventions at the
Ch	aracters			Dramatic	Definition
Mae his f evil culr Lad the send suic esca	cbeth : a brave warrior in Duncan's army, later the Thane (Lord) of Glamis and Cav fate into his own hands, allowing his ambition and that of his wife to overcome his from which he can see no escape. Towards the end of the play, when he realises the ninates in a battle against Malcolm and the English forces. Shakespeare uses Macb y Macbeth: Macbeth's wife, whose ambition helps propel her husband to seize crown. Subsequently, her husband's tyranny and her own guilt recoil upon her, ding her into a madness from which she never recovers and leads to her ride. She symbolises how a powerful, ambitious and ruthless character cannot upe the consequences of their own actions.	wdor. When three witches predict that he will one day be s better judgement. Having committed murder he finds h hat he is doomed, he briefly returns to his old heroic self. beth to explore the consequences of wrongful ambition. The Witches: although there is clearly more than one of seen as seem as a single character; they are often referre The witches directly influence the actions of Macbeth. T matters forward, although they never actually suggest plant ideas in Macbeth's mind and let his ambition do t predictions are ambiguous. Macbeth did not have to ac when he did, his fate was sealed. They symbolise the da allure of the supernatural.	e king of Scotland, he takes imself caught in a spiral of His bloody reign of them, the Witches may be ed to as 'The Weird Sisters'. Their predictions drive direct action. Rather, they the rest. Many of their t on their prophecies, but angerous and destructive	terms Tragedy	A genre of play that focuses on the downfall of the main character. Tragedies usually adhere to a set of conventions: - The play centres around a tragic hero . Usually he is male, usually with high status at the start of the play and some moral virtues. - Through a combination of the character's fatal flaw (their hamartia) and the intervention of fate, the character is set off on a path of self-destruction from which they cannot escape. - They may have a moment of realisation (anagnorisis) in which they realise their mistake, but it is too late to turn back. - The play ends with their death, and then the natural order is restored. Audiences were meant to feel a sense of catharsis - they could experience the intense emotions of the plot without making the same mistakes as the protagonist.
Ban wite pree hau Mae	quo: Macbeth's close friend and ally who also receives predictions from the ches. While both men have ambitious thoughts, Banquo is more cautious. His diction ultimately results in his own death. The vision of Banquo's ghost later nts Macbeth. He is emblematic of loyalty, rationality and reason, unlike cbeth's ambition and greed.	Duncan: King of Scotland. His victories against rebellic Norwegians have made him a popular king. When Mac kill the king, he gives Duncan's many admirable qualit dies at the hands of Macbeth, the Great Chain of Being disrupted. He is emblematic of misplaced trust as he is original Thane of Cawdor, and then the next Thane of	bus kinsmen and the cbeth initially decides not to ies as his reasons. When he or Natural Order is betrayed by both the Cawdor (i.e. Macbeth).	Tragic hero Jacobean drama	A seemingly noble character whose flaws, imperfections and actions lead to their downfall . Jacobean plays tended to be explore the extremes of human nature , such as humanity's selfishness and the nature of evil. Jacobean plays were particularly violent, cynical, pessimistic, and often dealt with the theme of society's moral corruption . The darker, disruptive and immoral side of humanity was often portrayed on the stage.
Macduff: the Thane of Fife. He is loyal to Duncan and suspicious of Macbeth. He leaves Scotland to join Malcolm in England, supporting him in raising an army to defeat Macbeth. The witches warn Macbeth to "Beware Macduff", and his role is vital as his killing of Macbeth allows the natural order to be restored. His nobility and loyalty serve as a foil to Macbeth's selfishness and tyranny.		Malcolm : Duncan's rightful heir. He leaves for England and enlists the support of the English king and English noble and deserving of the throne. Malcolm is the emb His restoration to the Scottish throne is essential for the	d after his father's murder lords. He is shown as being odiment of good kingship. e natural order to be	Hamartia	A fatal flaw which causes an otherwise noble or exceptional character to bring about their own downfall and, often, their eventual death. Examples of this could include jealousy, misplaced trust, errors of judgement, greed and lack of self-control.
		restored.		Hubris	Excessive pride which leads to a downfall. Hubris causes a character to violate a moral code, neglect a warning from an authority figure or attempt to overstep normal human limits. This has terrible consequences for them and those around them.

****		Litera	ary techniques	Definition
* what yo	u already know	*Excl	amatory	A sentence that expresses a heightened emotion . They end with an exclamation mark.
Subject terminology	Definition	*Fore	shadowing	Where the author gives the reader hints or signs about the future . It suggests what is to come through imagery, language, and/or symbolism. It does not directly give away the outcome, but rather, suggests it.
Antagonist	The character, or a group of characters, which stands in opposition to the protagonist. They are usually an enemy/ adversary/ opponent .	*Imaş	gery	The use of vivid language to evoke a sensory experience or create a picture with words for a reader. Writers often use the different senses to describe something – such as seeing, hearing and touching – in order to help the reader experience what is
Aside	A comment in a play that is intended to be heard by the audience but unheard by the other characters in the play.	*Imp	erative	being described. A sentence that is a command . They start with a verb.
Blank verse	rhymed verse, or unrhymed famote pentameter , is a contribut feature of Shakespeare's plays. If rhymed verse, the words that fall at the end of lines sound very similar (e.g. 'love' and 'dove' 'moon' and 'June'). Blank verse, on the other hand, has no rhyme (this is why it's called 'blan		ing	When the writer includes several words/ phrases/ ideas, one after the other .
	but is does have a definite rhythm created by iambic pentameter.	*Met	aphor	A type of image when one thing is compared to another thing to help the reader to understand an aspect of the original thing more clearly.
	An 'iamb ' is a pair of syllables - the first unstressed and the second stressed. 'Pent' means five so pentameter means there are five iambs (ten syllables) in the line.			The original thing (called the tenor) is compared to another thing (this is called the 'venicle) to help the reader to understand it more clearly (understanding the link between the tenor and the vehicle is called the 'ground ').
	Typically in Shakespeare, blank verse is used to indicate the status of a character, as usually only	*Mot	if	An object, image, symbol or idea that is repeated throughout a literary work. Motifs help to explain bigger ideas or themes.
	higher status characters will speak in blank verse, while lower status characters speak in prose.		moron	A phrase combining two or more contradictory terms e.g. <i>deafening silence, blinding darkness.</i>
Dramatic irony	This is when the audience knows more about a character's situation than the character themselves. It is often used by playwrights to create tension , or sometimes humour.	*Path	etic fallacy	A type of personification where emotions are given to a setting , a natural object or the weather .
*Foil	A character whose purpose is to emphasise or contrast with the qualities of another character.	*Path	105	A moment that makes us feel pity or sorrow . Dramatists will use pathos to make the audience feel sorry for a character.
Juxtaposition	This is when a writer places two unrelated things next to each other to highlight their differences This technique is a subtle way to encourage the reader to compare two or more	*Pers	onification	A type of image where a human quality is attached to a thing or idea.
	elements in a text, such as characters, settings, events and atmospheres.			
Monologue	A long speech by one character in a play. It is different to a soliloquy because it is intended that other characters can hear them.	*Simi	ile	A type of image that writers use to compare one thing with another, using 'like' or 'as '. A thing that represents or stands for something else – usually, this is an object that represents a much deeper idea, emotion or
*Soliloquy	A speech spoken by a single character in a play. The purpose is for the character to express their inner thoughts and feelings that are not intended to be heard or known by other characters in the play. During a soliloquy, the action of the play stops, as if time has paused for the audience the "inside" the speaker's head for a moment while they express what they are thinking and feeling.		boy syntoonsin	feeling. A symbol might occur only once to signify a particular emotion or idea. It becomes a motif if it is repeated at various points in a text. Therefore, a symbol could be described as a 'mini-motif'!
			antic field	A group of words that are very similar in meaning . Semantic fields are often used by writers to keep or reinforce a certain image/ feeling/ impression in the reader's mind.
Themes				
Ambition : Macbeth' pathway to deceit ar and violent. It can or exchanges his soul f	's ruthless seeking of power is presented as his ultimate flaw (hamartia). Shakespeare presents ambitior nd evil. Shakespeare suggests that ambition can present itself in different ways: it can make a person ru verride all morality. It can result in one becoming detached from oneself and from others e.g. Macbeth for a fleeting moment of power and therefore, his ambition is punished.	n as the thless	Fate: Shakespeare explo we make shape our lives he fails to predict the co	bres the idea of fate – is there is a certain path that has already been set out for us that we are powerless to change? Or do the choices s? Is it possible to 'cheat' fate? Shakespeare also suggests that Macbeth becomes so consumed and obsessed with his own destiny that insequences of his ruthless actions. Shakespeare suggests that the supernatural use the idea of fate to manipulate Macbeth.
Deception (reality v and deceiving other power are particular	rs. appearance): Shakespeare presents deception (lying) as one of the products of ambition. Deceiving or is is a sign of moral decline. Shakespeare also suggests that everyone is capable of deception but that the rly vulnerable.	neself ose in	Nature and the superna the supernatural to enco characters' innermost de	itural: Shakespeare uses the supernatural to help the audience to understand the characters' secret ambitions. Shakespeare also uses burage the characters to make irresponsible decisions. Shakespeare suggests that the supernatural are a catalyst for revealing esires.
Guilt: Shakespeare s	suggests that ambition ultimately leads to guilt and that this eventually results in inner torment and ma	idness.	Violence : Shakespeare's ends Macbeth's reign.	s portrayal of violence is often contradictory: it secures Duncan's reign at the start, but it also ends it; it also allows, secures and then
Power: power is pre tyrants. Shakespeare	esented as a corrupting force in the play. Desire for power can transform the most noble of characters in e juxtaposes examples of good and weak kingship, through Macbeth, Duncan and Malcom.	to	Loyalty: Shakespeare suggests that loyalty is often vulnerable and ultimately is lost as a result of ambition. Shakespeare highlights the importance of being loyal to king and country, as well as being loyal to peers.	
Chaos and disorder that succeed Duncar Scotland and balanc	: by challenging the Divine Right of Kings, the balance of The Great Chain of Being is overturned. The en's regicide are marked by chaos and disorder, as symbolised in the mental state of characters, the state of an nature.	of	Masculinity: Shakespea manipulation.	re suggests that 'masculinity' can encourage violent and reckless behaviour and that ideas surrounding gender can be used as tools for

New party in power

the EU

Effect of wars, tax, environment

Relationships with other countries and

COMPONENT 1 - Exploring Enterprises

• Investigate the factors that contribute to the success of an enterprise

INTERNAL FACTORS SITUATIONAL ANALYSIS



What are internal factors?

Internal factors can be controlled by an enterprise.

Internal factors can impact costs positively and negatively. The factors which the enterprise need to fully understand are below.

Understanding the market	 Who are the competition? What od the customer want form our enterprise? What makes our product unique? 	
Satisfying customers	 What is the quality of the product? How is the product priced? Do you offer good customer service, convenience or a USP? Is the product available? 	
Planning / Financing	 How / When can orders be taken? Online? In person? Are we organised? Do we have enough stock? Do we have enough time to do X? Have we forecasted as well as possible (£)? 	
Marketing and promoting	 Are we getting value for money with our marketing and promotions? M&P can be an expensive cost for SMEs Can we make use of social media to M&P? 	
HR Costs	 Do we have a contingency plan? - have we planned for the unexpected (in the hope it will never happen?) Do we have money readily available for costs which aren't expected (in the hope we'll never need it) Examples: Advertising for a new role/ cover/training. 	
P - Political	E- Economic	
Changes to laws	Employment levels	

Exchange rates (import / exports)

Interest rates (on loans/overdrafts)

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Attitudes towards work Level of customer education

Wage levels

Disposable income

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How can an enterprise conduct a situational analysis?

This is simply analysing (studying) the situation an enterprise is in, looking at the market and assessing how it could be affected by trends and developments. Below is a SWOT analysis explained:

		S	 <u>Strengths of an enterprise</u> They might keep customers satisfied. They might have a good brand image & reputation. They might offer a good quality service. 			
or 1?	 W Weaknesses of an enterprise Staff members might lack training. Their improvement plan might not be effective. They may not have the best resources. They may not have high market share. They may not have competitive edge. 					
		0	 Opportunities the enternance These are different what their strengths 	erprise might want to exploit for each enterprise depending on s and weaknesses are.		
e T Threats on an enterprise This is anything which might prevent success for example: • Changes in trends/tastes • New competitors entering the market • Existing competitive changing what they do						
	Enterprises have to consider how each other the factors might effect them below. This is a PEST analysis.					
	S - Social			T - Technological		
	 Changes in fashion/trends Ethical considerations (e.g. Fair Trade) Environmental considerations Demographics (is it growing?) 			 Developments in computing Mobile device developments Machines taking the place of humans Increase in e-commerce 		

COMPONENT 1 - Exploring Enterprises

EXTERNAL FACTORS

• Investigate the factors that contribute to the success of an enterprise



External factors can not be controlled by the enterprise. Once the enterprise has been made aware of changes they need act on them and over come them!



External factors which may impact an enterprise might be:

- Cost of energy (variable costs) Gas, Electricity, Oil
- The cost of raw materials these are items which are needed for producing a product (wood for a joiner for example)
- The cost of borrowing money if you borrow money from a lender you will have to pay interest on the loan. If the interest rate goes up then so does your cash outflow.
- Rent on a premises if rent goes up then this impacts your enterprise's costs.

Increase and decrease in costs is known as fluctuation. Enterprises need to be prepared for costs to fluctuate.

MARKETING (External factor)

- Marketing costs a lot of time and money and these costs can also fluctuate. In these instances enterprises might choose to use free marketing e.g. social media, blogs, vehicle advertising, email campaigns.
- They may also choose low cost marketing: radio advertising, business cards, flyers or newspaper advertising.

SELLING COSTS (External factor)

When selling the enterprise must consider wages (they can rise and the minimum is set nationally), packaging the goods and delivering the goods (the cost of the raw materials can also rise)

GOVERNMENT REGULATIONS

- Costs can rise due to companies (such as insurance companies) needing to cover their costs.
- Costs can also rise when governments make changes such as to wages, taxation and pensions.

Revenue is how much an enterprise earns from selling its goods and services. Changes in revenue happen when the amount of money an enterprise receives goes up or down. Enterprises cant also stop or influence the changes in revenue, but they have to respond to the changes to ensure they are still successful.

<u>Competitors</u> What are competitors doing which might impact your revenue? What new enterprises are coming into your market? How can you attract customers or encourage repeat purchase to gain competitive edge?	 <u>Consumer Confidence</u> This means how much confidence consumers have in the economy. If the economy is growing peoples jobs will be safe and they'll spend. If the economy is in recession people will be uncertain about the future and will be less confident in spending. This impact the revenue of enterprises.
<u>Consumer behaviour</u> Consumer tastes have an impact on revenue - this creates a social pressure on enterprises to change their product portfolio.	<u>Consumer legislation</u> Sometimes things which enterprises sells are: Banned – they become illegal T&Cs change – for example how goods can be packages/promoted

Factors that impact on REVENUE

COMPONENT 1 - Exploring Enterprises

• Investigate the factors that contribute to the success of an enterprise

What are some of the reasons for SME success?

- · Skills relevant to the market
- Hard work and effort
- Determination
- Resilience
- Ability to develop and train staff
- · Ability to motivate staff
- Providing a high level of customer service
- Meeting and exceeding customer needs
- Having experience of the market.

What are common aims of SMEs?

- Survival
- Breaking even
- Making a profit
- · Meeting customer needs



How can the success of an enterprise be measured?

Customer satisfaction: Measuring customer satisfaction is done by looking at whether the enterprise has a good reputation and whether customer tell others about the enterprise. If this is the case, then the enterprise will be deemed to be a success.

MEASURING SUCCESS

Profit: This is the revenue left after all costs have been taken away. Most enterprises make a profit. For private enterprises, profit is essential. For social enterprises, profit is called a surplus, this is reinvested into the organization. Social enterprises are, for example, charities.

There are many liquidity ratios you need to know to be able to measure this, but in essence as the profits go up the enterprise is demonstrating success.

Customer satisfaction: Measuring customer satisfaction is done by looking at whether the enterprise has a good reputation and whether customer tell others about the enterprise. If this is the case, then the enterprise will be deemed to be a success.

Market Share: This is the percentage of the market which the enterprise controls. For example if the whole market takes £100,000 per year but my enterprise takes £10,000 on its own then my enterprise has 10% market share. Survival: This means continuing to operate for a long time after the enterprise has started. 90% of enterprises survive their first year, however, it is known that the first 5 years are the most challenging.

The longer an enterprise trades for the more successful it is likely to be. This is due to many of the skills required for success have been learnt and enhanced. Experience assists with success.

Making a living: If an

entrepreneur is happy and conformable financially then they're making a success of their enterprise. Most enterprises are set up for independence.



The Origin of the Universe (cosmology).

Monotheistic religions (religions with one God) like Christianity and Sikhism believe the world was created by an all-powerful (omnipotent) God. Literalist Christians believe this happened exactly as the Bible said (in 6 days with the 7th as a day of rest). **Non-literalist Christians** believe the creation story teaches us that God made the world. Sikhs believe that Waheguru created everything. They don't have a creation story, however in the Mool Mantra and throughout the Guru Granth Sahib reference is made to the believe that Waheguru is responsible for all existance. Sikhs are happy to accept scientific ideas about creation, however they will say that Waheguru used the big bang to create.

The Big Bang theory suggests that time and space began around 15 billion years ago. The Big Bang theory says the universe began from a 'singularity', an infinitely tiny point which was infinitely hot and dense and as it expanded sub atomic particles and then atoms began to appear. This led to stars and planets being formed. Scientists posited the Big Bang theory based on background radiation which they believe is left over from the initial expansion.

Stewardship. Christianity: world and everything in it should be respected and protected as part of God's creation. 'You made them rulers over the works of your hands.' Sikhism: God has appointed you a custodian (a trustee to care for the world). You will be judged on your use of animals and the world. Humanists: look after the world for future generations. Reuse, recycle etc.

Judgement, heaven and hell (Eschatological beliefs)

Humanists- no part of us lives on. Death is the end (materialism=nothing exists apart from matter e.g. no soul).

Christianity: soul lives on in eternal life (dualism=body and soul are two separate things). Soul of the righteous (good) goes to heaven, the sinners to hell. Some believe our soul leaves the body and is united with God, other believe after death we will have a 'bodily resurrection' like Jesus and be raised as spiritual bodies.

Heaven- 'In my Father's house are many rooms. If it were not so, would I have told you that I go to prepare a place for you?' Hell- 'they will be tormented day and night for ever and ever' and 'there men will weep and gnash their teeth.'

Sikhism: Believe in samsara, the cycle of birth, death and rebirth. Sikhs sometimes refer to death as life an experience of sleep. Having gone to sleep tired, the person wakes up refreshed the next day, ready for a new life. The body is seen as a vessel for the soul. Sikhs believe in Karma, each person is rewarded or punished according to his or her actions. If a person has done mainly evil deeds their soul will be reborn into a lower life form, or if the person has done mainly good deeds their soul will be reborn into a lower life form, or if the person has done mainly good deeds their soul will be reborn into a human life or achieve Mukti. Sikhs believe that the soul is immortal and goes through different life forms until purified to become one again with Waheguru – achieving Mukti. To achieve this involves meditating on Waheguru and purifying the soul from things like anger, attachment, greed, lust and ego. Failure to worship God and to meditate upon him results in more reincarnations. Karma "What ever you plant you shall harvest"

Funeral rites/traditions - Christianity	Funeral rites/traditions - Sikhism	
Last rites are sometimes said by a	Before the Sikh funeral the body is	
priest close to death	bathed and dressed in clean clothes.	
	If an Amritdhari Sikh, they will have	
Funeral service in a church-close to	all of the 5 Ks placed on their body.	
God		
	The funeral will be held in the	
Candles lit- reminder Jesus is 'light of	Gurdwara in the presence of the	
the world' and there is a new life in	Guru Granth Sahib.	
heaven		
	Special Ardas prayers will be recited.	
Some have Communion/Eucharist-		
reminder of Jesus' sacrifice	The body will be cremated as the	
	body is seen as only clothing for the	
Readings from Bible-to remind them	soul. Many Sikhs will take the ashes	
of eternal life and guidance from God.	from the cremation to the Punjab to	
c c	be scattered in water from where	
Cremation or Burial-depends some	Sikhism started. Some Sikhs choose	
allow cremation now as soul is	to put the ashes into a local river if	
thought to be separate from body	they cannot go to the Punjab.	
5	, , ,	
	L	

Abortion

UK law- legal before 24 weeks with the agreement of two doctors.

Christianity- some argue we should be compassionate and permit abortion if the mother's life is in danger. Others Christians say it is a moral evil because every life is a gift from God.

Sikh – believe that life is a gift from Waheguru and so abortions are not acceptable as they get in the way of Waheguru's creative work. They believe that life begins at fertilisation and so ending that life is a sin. Abortion may

Euthanasia

UK law- euthanasia is illegal the UK and considered either manslaughter or murder and carries a life in prison penalty. Hospices and palliative care offer pain relief and comfort as end of life care.

Christianity- life is sacred so taking life is wrong. Murder is against the 10 commandments 'do not murder.' Hospices offer alternative where care and support can be given. Some liberal Christians might allow Euthanasia if it can be proven as the most loving thing (although most do not).

Sikh- All life has a divine spark and is sacred so no one should take action to end a life. Sikhs believe they should preform sewa and serve those who are ill and dying through hospice care.

Turning off a life support machine if there is no hope of recovery is not the same as euthanasia and is permitted by both.

Important people/theorists.

Stephan Hawking- scientific research established universe is currently expanding, contributed to the Big Bang theory. William Paley- Suggested the world, like a watch, must have a designer since it has such complex patterns and structures it could not have occurred by accident. Charles Darwin- set out the theory of evolution after seeing how finches (a type of bird) had adapted and evolved to have different beaks depending on the food available to them, those with mostly cactus fruit had much sharper pointed beaks.

Richard Dawkins- said evolution is the best theory to explain how life came to be. He said that the world might seem designed but then we can't explain who designed the designer (God).

2 Mark Questions

Life after death: the

Afterlife

	belief that existence continues after physical death
Environmental sustainability	Ensuring that the demands placed on natural resources can be met without reducing capacity to allow people and other species of animals, as well as plant
Futhanasia	in the future
	'good' and thanatos 'death'. Sometimes referred to as 'mercy killing'. The act of killing or permitting the death of a person who is suffering from a serious illness
	The process by which different living creatures are believed to have developed from earlier less complex forms during the history of the earth
Abortion	When a pregnancy is ended so that it does not result in the birth of a child
Quality of life	The extent to which life is meaningful and pleasurable
Sanctity of life Celebrate Human Life	The belief that life is precious, or sacred. For many religious believers, only human life hold this special status
Soul	The spiritual aspect of a being; that which connects someone to God. The soul is often regarded as non-physical and as living on after physical death, in an afterlife

Relationships: Family, marriage, sexual relationships, issues of gender in religion and changing attitudes to all these topics including same sex relationships.

Key Concept	s	21 st Century Family	Sikh marriage (Anand Karaj)	Divorce/Remarriage: Christianity		
	- tions)	Family is the building block of society, for religions it is	-> iviarriage is the joining of two souls in one body.	->Jesus taught that no-one should break up a marriage: "What God has joined together		
(2 mark ques	stions)	the place where faith is passed down. Children get	-> Part of a person's purpose in life	Iet no man separate."		
Adultery	Sexual intercourse	taught the essentials. Prayer, worship, celebrations and	-> Place where children can be born and raised	->rou promise - till death us do part in nont of God.		
	between a married	how to live a good life.	Guru Granth Sabib Quote <i>'they glone are called</i>	-> St. Faul (august 'A mun must not anotice ins wije.		
1994	person and a person		husband and wife, who have one soul in two bodies'	-> Remarriage generally discouraged, but sometimes allowed, usually not in a Church.		
	who is not their	Christianity:		Catholics (As marriage is a sacrament, a most holy ceremony involving God)		
	spouse	->Christians believe the family to be important because	Marriage Ceremony (in a Gurdwara)	->Do not recognize divorce what God has joined no one can separate.		
	(husband/wife)	God created Adam & Eve to be a family unit.	1. In the presence of the Guru Granth Sahib.	->may have an annulment, where the marriage is declared invalid.		
Divorce	to legally end a	->Ideal situation would be a nuclear family: one where the	2. Grooms scarf placed in brides hand, usually by her	-> As divorce is not recognized remarriage in the RC Church not permitted.		
Divorce	marriage	childron	father. Symbol of their union.	Diverse /Demouriego: Sikhiem		
(1)	mannage	Bible quote: 'Honour your father and mother "	3. Guru Granth Sahib reading	Divorce/Remarriage: Sikhism		
R Q		bise quote. Honour your jutier und motifer.	4. Circle the GGS four times as each of the four parts of	-> Marriage is the joining of two sours, divorce is not really possible.		
ALD		Sikhism:	the Lavan, the wedding Hymn is read.	-> Family and friends will do all they can to try to support and avoid a divorce.		
23		->The family is the essential social unit in Sikh society.	5. The lavan talks of the soul's journey towards Mukti.	-> Sikhs may get a legal divorce in the UK, but it may not be accepted by religious		
Cohabitation	To live together as a	-> All the adult Gurus were married and they believed that	6. Ardas, set prayers are said.	tamilies and some in the Sikh community.		
Conabilation	couple without being	the family was the basis for a strong, safe, secure society	7. Karah parshad shared, sweet semolina dough.	-> Renat Maryada (SIKh code of Conduct) remarriage is not permitted unless one's		
	married	>The family is where children are trained in the five Sikh		spouse has died. In the west nowever sikhs tend to encourage people who have		
	marrieu.	virtues, such as compassion, truth, and love.	<u>Christian marriage</u>	had a legal divorce to remarry.		
		Guru Nanak preached that the life of the householder was	-> God made numans to be joined together in marriage.	Purpose of Sex/sex before marriage/cohabitation		
		the highest path to spirituality.	-> In Genesis God created Adam and Eve and instructed	Christian		
Commitment	a sense of dedication	Quote from GGS: "The householders assert their faith in	->For Catholics marriage is a sacrament: God is joining	->Conservative Christians believe sex before marriage is wrong. Sex is sacred, it was		
MAITALERA	and obligation to	family life"	the couple	created by God as a gift for a couple within marriage for the purpose of creating life.		
COMMITMENT	someone or		Bible Ouote, 'man will leave his mother and father and	->Liberal Christians might be ok with sex before marriage if a couple are in a faithful		
COMMITMEN	something	Role of men and women	be united to his wife, and the two will become one flesh"	committed relationship as an expression of their love. Cohabitation may be		
		Christian		acceptable.		
Contraception	methods used to	->Traditional/conservative: God created Adam then Eve as	Marriage Ceremony (in a church)	->Casual sex (promiscuity) is seen as wrong by all Christians as it is seen as devaluing		
	prevent pregnancy	his companion to support each other.	1. Welcome and introduction.	sex and the people involved.		
(*******	(pill, condom etc)	-> St Paul taught that wives should obey their husbands.	2. Prayers and Hymns asking God to help the couple	Sikh		
		Bible Quote: "Wan is the head of the women" "women	3. Bible reading about love	-> Sex should be with in marriage for the purpose of having children.		
		Submit to your husburids	4. Exchange of vows, the most important part the	-> Lust (Kam) is one of the five evil passions that can pull people away from God, it is		
Gender equality	people of all genders	and so only men can be Priests	commitment. 'Till death do us part'	manmukn (self-centred). Conabitation generally seen as unacceptable.		
	enjoying the same	->St Paul said women should not speak in church	5. Rings symbol of unending love given to each other.	-> The kachera (loose underwear) is a reminder of the need for self-control and chastity		
-	rights and	Bible Quote: 'learn in quiet submission'	6. Formal pronouncement, officially married.			
	opportunities in all	->Liberal Christians would say that Paul was writing as a	Priest says, 'what God has joined together let no man	Contracention		
	aspects of their lives	man of his time, reflecting the sexist attitudes of the time.	separate'	-> Catholics forbid it. Natural law says that humans should reproduce through sex.		
Bosponsibilitios	actions (dutios you	-> Most Christians would allow women to be ministers and	Adultany	as contraception stops this is it considered wrong.		
Responsibilities	actions/duties you	leaders in church including the Church of England.	Christianity	-> Most Christians accept it as part of a couple's family planning, as long as the		
0	out These are often	-> Jesus treated women the same as men, he had female	->Ten Commandments: "You shall not commit adultery "	couple have both agreed to it.		
(M)	as a result of a role	friends, Martha and Mary Magdalene	->It breaks the marriage yows (promises)	-> Sikhs most will believe it is acceptable and responsible.		
「「「二」」	you have.	Bible Quote: 'There is no male nor femaleyou are all one	->Jesus said if you look at someone else with lust you	-> Some Sikhs may see it an unnatural and preventing the purpose of sex.		
	,	in Christ'	have committed adultery in your heart.	-> Must not be used to have excessive sex as lust in one of the five evil passions		
Roles	position, status or		-> Jesus forgave the adulterous woman, he said 'let he			
	function of a person	Sikh	who is without sin cast the first stone.'	Same sex relationships		
	in society, as well as	-> Ivien and women are equal; all contain the divine spark.		Conservative Christians would say they are sinful. They would say that sex is		
10-01	the characteristics	-> Guru Amar Das appointed women preachers.	Sikhism	meant to be creative but same sex couples cannot create through sex.		
	and social behaviour	-> Guru Gobinu Singn gave all Women the same name, Kaur	-> Adultery is considered a serious sin.	Bible Quote: 'You should not lie with a man as with a woman it is an		
	expected of them.	Guru Granth Sahih Quote: 'From her kings are horn'	-> Sikh marriage is a sacred bond and adultery breaks that	abomination'		
		-> All the Gurus were men	bond, it is giving in to lust (one of the five evil passions)	Liberal Christians would suggest the Jesus never mentioned same sex issues but		
The Relationshin	section will have 6	-> Indian traditions still often have men and women in	-> It brings shame on the family. It is considered	did talk about love and compassion. Many would support gay marriage.		
			manmukh behaviour (self-centred) 'The self-willed	Silbs no montion in GCS. There is montion of marriage between a man and		

manmukh is lured by another man's wife'

Sikhs- no mention in GGS. There is mention of marriage between a man and

women. Mixed views among Sikhs but officially no support for gay marriage.

The Relationship section will have 6 extra marks for SPaG on the 15-mark question!

traditional roles at home.

Functional and Chemical Properties of Food 1

The chemical structure of food ingredients plays a vital role in how they can be used in cooking. Applying heat to proteins, carbohydrates and fats usually damages their structure, which helps to obtain the desired effect.

Proteins

Macromolecules built of thousands of amino acids bonded together into long chains Amino acids \rightarrow peptides \rightarrow polypeptides (proteins)

The structure of proteins:



Functional and chemical properties:

- 1. Denaturation damage to the protein's structure caused by:
 - a. Heat during cooking, proteins vibrate quickly and as a result hydrogen bonds in them rupture
 - **b.** Acid because hydrogen atoms from the acid bind with nitrogen from the protein, preventing it from forming hydrogen bonds within protein molecule and so it cannot form a 3D structure
 - or mechanical action (physical) during whisking, protein uncoils and exposes hydrophobic areas, which stick together and form a foam
- Coagulation aggregation of protein particles into larger lumps, causing it to set. Examples of protein coagulation include cheese becoming rubbery when overheated and egg whites becoming solid when cooked.



During cooking, the protein in eggs coagulates and denatures, and causes the eggs to set.

- **3. Syneresis** leakage of water from overcooked (and over-coagulated) proteins. Usually associated with eggs.
- 4. Gluten formation complex, net-like protein built of glutenin and gliadin, simple proteins present in wheat, rye, barley and oats; the two proteins cross-link with each other, creating a net (as in a sweater) which can hold air bubbles during proving and baking of bread and bakery products

glutenin + gliadin + water ightarrow gluten net ightarrow soft, springy texture

 Foam formation – air bubbles trapped in a liquid (e.g. egg white). Whisking makes proteins unravel and denature. Macromolecules which include mono-, di- and polysaccharides (built of thousands of monosaccharides) bonded together

Carbohydrates



Functional and chemical properties:

 Gelatinisation – happens when starch granules absorb water, and swell and break during heating, so that mixtures thicken and form a gel when cooled; used to prepare sauces and puddings





 Dextrinisation – happens when starch chains break down into shorter chains of dextrins; during the process molecules of water evaporate and carbon is left to give brown colour; occurs during baking and toasting bread and other baked goods

starch + heat \rightarrow dextrinisation

3. Caramelisation* – happens when sugar is heated in very high temperatures, causing it to liquidise and form a thick, brown syrup; during the process water evaporates and carbon is left to create a brown or black colour; occurs during roasting of vegetables, making caramel and fudge, etc.

sugar + heat \rightarrow caramelisation

*Caramelisation is not required by the specification; however, it is an important reaction that occurs in food during cooking, causing changes in appearance, texture, taste and aroma.

Fats and Oils



Functional and chemical properties:

- Shortening when fat particles surround starch so that it cannot access water and, therefore, prevent gluten formation; technique used to obtain crunchy, crumbly pastry such as for biscuits
- 2. Aeration trapping air bubbles in a fat mixture, e.g. cream or butter, to improve its texture
- **3. Plasticity** ability of fat to be easily spreadable and melt in various temperatures, dependent on the length of the fatty acids chains in the fat particle



Plasticity is increased when butter melts.

- 4. Melting point temperature at which fat turns into oil
- 5. Emulsion stable mixture of oil and water

Water-in-oil emulsion \rightarrow butter Oil-in-water emulsion \rightarrow milk

To create a stable emulsion, **emulsifiers** need to be used, e.g. lecithin from egg yolk is used to make mayonnaise. Emulsifiers bind together molecules which normally wouldn't bind and prevent them from separating.

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NISER FUNCTION OF INGREDI	FUNCTION OF INGREDIENTS			
INGREDIENT	FUNCTION			
Strong plain flour	Bulk and structure. Strong plain flour contains two protein			
-	glutenin and gliadin which when mixed with liquid form gluten.			
	Gluten helps form and elastic stretchy dough. Flour also adds			
	flavour and colour due to dextrinisation (effect of dry heat on			
	starch.) Flour is converted to dextrin (simple sugar.) The dextrin			
	is then caramelised and gives the crust colour and flavour			
Yeast	Produces carbon dioxide gas which makes bread rise. Yeast needs			
	food, warmth, moisture and time in order to multiply. Yeast also			
	adds flavour and taste.			
Liquid	Binds ingredients together and helps development of gluten. It			
	needs to be about 37c to enable yeast to multiply. If too hot it			
	will kill yeast			
Salt	Adds flavour and strengthens gluten. Too much will stop yeast			
	working			
Fat/oil	Weaken gluten and restrict action of yeast giving dough a closer			
	texture. Do add flavour and prevent bread staling as quickly.			
	Bread needs longer to prove if lot of fat/oil is used			
Sugar	Flavour and colour. Also acts as extra food for yeast so speeds up			
	proving			

FAULT		CAUSE OF FAULT	HOW TO AVOID/REMEDY THE FAULT
Bread has not risen w	vell and is coarse in texture	Yeast was killed, yeast out of date, lack of	Water must be 37c max. Check use by dates on
		proving, too much proving	dried yeast. Dough should be left until double
			in size
Bread has a dense te	xture	Wrong flour used, too much salt added, yeast	Check using strong plain flour. Add salt on
		killed, dough too dry, dough left proving too	opposite side of bowl to yeast before mixing
		long	and check amount. Check temperature of
			water, if too hot yeast is killed. Add enough
			water to make soft, slightly sticky dough, do
			not use too much flour when kneading
Dough collapses whil	st cooking	Dough left proving for too long	Leave dough until double in size only before
			baking
Bread has uneven tex	ture and large holes	Insufficient kneading	Dough must be elastic and spring back when
			pressed

KNOWLED BREADMA

BCHS

Key proces <u>bread</u>

Fermentati environme sugar conta producing alcohol. Co tiny pocket dough and rise. Alcoho cooking



Kneading dough is w distributes develops the gluten making dough elastic and smooth. It allows bread to rise prope and more easily



Shaping-gives bread a quality finish

Proving- This is where the dough is left to enable the

fermentation to occur

Food Technology: Meat Knowledge Organiser	Changes in meat during cooking	
ΜΕΔΤ	1 There is a change in colour from red to brown.	This is due to changes in the pigment MYOGLOBIN.
Meat is the flesh of an animal. It contain HBV protein, fat, iron and B vitamins Types Beef – comes from a cow Veal – comes from a young male cow (calf) Good quality beef should be firm, fine grained, moist but not slimy and a rich burgundy colour Lamb –comes from sheep under a year old Mutton –comes from older sheep Pork All meat from pigs is a type of pork Ham –cured and salted pork Gammon – whole leg of pork, cured and cut into easy to cook slices Bacon – cured and sold as smoked or unsmoked depending on production Venison – meat from deer OFFAL This is the edible internal organs of an animal e.g. heart, liver, kidney, brain, tongue POULTRY	 2 An appetising smell is produced as volatile and cooking. 3 The texture becomes firmer as the protein in the 4 Meat juices are squeezed out as the collagen of 5 The fat melts and helps to keep the meat moist 6 Cooking can make meat more tender and palat converted into gelatine (when liquid is presented more tender. 7 Over cooking by moist heat causes the meat fit 8 Dry methods of cooking are for expensive cuts 	d aromatic substances are released by e muscle fibres <u>coagulate</u>) (sets) above $50 \circ c$ contracts at 60 oc. This loss of juices makes the meat shrink.
This is the collective word for domestic fowl(birds) reared for their meat and		
eggs eg chicken, turkey, pheasant, goose, duck, quail	Tenderness of Meat	FACTS
<u>Structure of meat</u> Lean meat is made up of <u>muscle</u> and fat. Muscles consist of long fibres. <u>The longer</u> and thicker the fibre the tougher the meat.	 Meat that is easy to tenderise usually has: Small, fine fibres Little connective tissue or gristle 	•Cheaper cuts of meat are just as nutritious and useful as more expensive cuts if correctly cooked.
 (a) Muscle fibres are made of the proteins <i>myosin</i> and <i>actin</i>. Muscle cells are long thin fibres which are formed into bundles. (b) Connective tissue is made up of the proteins <i>collagen</i> and <i>elastin</i>. Connective 	• Fine marbling with fat between the bundles of fibre	•Cheaper cuts of meat have larger, longer fibres and more conne tissue.
tissue surrounds each bundle of muscle fibres and also holds groups of muscle fibre together. Collagen surrounds muscle and is the main constituent of tendons. Elastin forms ligaments.	Tender cuts of meat are usually more	•Cheaper cuts of meat need LONG, SLOW, MOIST methods of cooking e.g. stewing, casseroling, pot roasting.
(c) Fat is found under the skin and around organs e.g. suet around kidneys. Patches between muscle fibres are called ' <u>marbling</u> '.	expensive	Tender more expensive cuts of meat can be—fried, grilled roasted

PASTRY MAKING KNOWI EDGE ORGANISE	R 1 🦉		Faults in pastry	Causes
Type of pastry	Examples of products	Picture	Tough and hard pastry	Conditions not cool enoughLack of air introduced
Shortcrust	Cornish pasties, fruit pi jam tarts, Bakewell tart	es, is		 Heavy handling of pastry which pressed out air Incorrect proportion of water used (usually too much) Too much flour used during rolling out
Rich shortcrust	Fruit flans, fruit tartlets French apple tart	,		 Turning pastry over during rolling Wrong type of fat used Too cool an oven
Flaky/Puff/Rough puff	Vol au vents, fruit turne cream horns, Eccles cal	overs, 🔍 💽 🥑	Destruction on weakly and shout	Inadequate rubbing in of fa
F 1.	palmiers, vanilla slices		Pastry is too crumbly and short	 Fat is rubbed in too much Too little water used
Filo	Apple strudel, spring ro		Crisp outside and underdone inside	 Too hot an oven Too short a socking time
not water crust	Γοικριε		Pastry shrinks after cooking	 Pastry was stretched during rolling
Choux	Profiteroles, eclairs, go	ugere 🔗 📎 🥯		 Pastry not allowed to relax in a cool place before cooking
Suet	Steak and kidney puddi jam roly poly, dumpling	ng, gs	Blistered pastry	 Uneven rubbing in of fat Water added too slowly and unevenly
 (B) INGREDIENTS USED IN PASE 1. FLOUR Bulking agent/adds s which form GLUTEN Gluten creates a stree Develops colour and cooking 2. FAT (butter/m argar Shortens the pastry from forming too long Ensures a crumbly to 	structure as used in la l. etchy net and helps to l flavour of pastry thro ine/lard) as fat coats the starch g gluten strands exture as the gluten st	rge quantities, provides proteins keep the dough together ugh dextrinization during particles and prevents them trands are kept short and just	Soggy pastry	 In a pie steam is not allowed to escape during cooking Presence of sugar on top of fruit in a pie Under cooking Using a pot/ceramic dish for cooking pastry in Not baking a flan 'blind' (baking blind is where pastry is cooked WITHOUT a filling)
 enough to keep doug Improves the colour 3. WA TER Binding agent as it e Helps to form the do Prevents pastry beco It expands during co texture 4. SALT Flavour 5. EGG Used in some pastrix 	gh together and flavour of the pas mables glutenin and g ugh and develops sor oming too dry during o oking allowing pastry	try liadin to form gluten ne pliability cooking to obtain a more airy and open	What happens when pastry is cooked? The fat melts and is absorbed by the starch in the The formed gluten stretches a little (more gluten is pastries rise up more) The dry heat causes dextrinization creating a gold During baking water evaporates causing further b	e flour. s formed in choux, flaky/puff/rough puff making these den colour and sweeter flavour browning and a crisper texture
 Adds colour and flav 	our			

Helps aerate choux pastry

PASTRY MAKING KNOWLEDGE ORGANISER 2



(A) General rules for pastry making

1. Keep everything as cool as possible. (apart from hot water crust and choux).

Cold air has more capacity to expand than warm.

2. Introduce as much air as possible in sieving, mixing etc. to make pastry light.

3. Handle lightly and roll lightly to avoid pressing out air.

 Do <u>NOT</u> turn pastry over as this allows too much flour to be pressed in, altering the proportions of fat to flour and making the pastry tough and hard.

5. Use as little flour as possible when rolling out to prevent making pastry hard.

- 6. Try not to stretch the pastry during rolling or it will shrink during cooking.
- Pastry may be improved by leaving it to relax in a <u>COOL PLACE</u> before cooking. This makes it easier to roll as the fat is not oily. It also allows the gluten to relax which prevents shrinking.
- 8. Cook pastry in a hot oven so that it will rise and the gluten in the flour will absorb water, stretch and expand. The high heat will then set the pastry in the risen shape. The hot oven will allow the starch grains to burst and absorb the fat.

If the oven is too cool the fat will melt and run out while the flour remains uncooked. The resulting pastry will be moist, heavy and greasy.

(B) MAKING DIFFERENT TYPES OF PASTRY

(i) Shortcrust pastry

Recipe example= 200g plain flour, 50g butter, 50g lard/white vegetable fat 8 tsp cold water

Sieve flour into bowl, rub in fats (usually butter/margarine and lard) until breadcrumbs. Bind with cold water to form a soft, pliable dough (approx. 1 tsp for each 25g flour). Roll out on a lightly floured surface, shape and bake

(ii) Choux pastry

Recipe example= 75g plain flour, 50g butter (NOT low fat spread), 150ml water, 2 eggs

Sieve flour onto paper towel, crack eggs into a small bowl and whisk with a fork, put water and butter into a pan and heat until butter melts, then bring to a rapid boil, remove from heat and quickly stir in flour until mixture leaves side of the pan clean, allow to cool, beat in egg a little at a time to form a smooth, stretchy paste, spoon or pipe shapes and bake at 200c until risen, golden and hollow

(iii) Flaky pastry

Recipe example =200g strong plain flour, 150g butter, 100ml cold water, 1 tsp lemon juice

- 1. Sieve flour into a bowl and rub in 37g of butter until there are breadcrumbs.
- 2. Add water and lemon juice to make a dough.
- 3. Roll out the dough to form a rectangle of approx. 15x35cm.
- 4. Dot 1/3 of the remaining butter over 2/3 of the rectangle.
- 5. Fold the 1/3 without any fat on it over the middle third of the pastry.
- 6. Bring the other third on top.
- 7. Seal the edges with a rolling pin and turn the dough through 90 degrees. Cover and chill for 10 minutes.
- 8. Repeat stages 4-8 with ½ of the rest of the fat. Cover and chill for 10 minutes.
- 9. Repeat stage 4-8 with the remaining fat. Cover and chill for 10 minutes.
- 10. Roll and fold the pastry one more time without any fat.
- 11. Cover and chill for at least 30 minutes before using.



SAUCEMAKING

(A) Function of sauces – Sauces are used to add colour, flavour, moisture and nutritive value to food.

(B) STARCH BASED SAUCES – can be made by the blended method, roux method or all-inone method. <u>BASIC RECIPE PROPORTIONS FOR ROUX SAUCES</u> (proportions of fat and flour are always equal) (a) Pouring=15g margarine/butter 15g flour 250ml liquid (b) Coating=25g margarine/butter 25g flour 250ml liquid (c) Panada= 50g margarine/butter 50g flour 250ml liquid THE ROUX METHOD (i) Melt fat ,remove from heat and stir in flour (ii)<u>GRADUALLY</u> add liquid stirring well after each addition (iii) When all liquid is added, return pan to the heat and <u>SLOWLY</u> bring the contents to the boil stirring all the time until the sauce thickens THE ALL-IN-ONE METHOD – this is a quick and easy method. The ingredients and proportions are the same as for the roux method (i) Put flour, liquid and fat in a pan (ii) put the pan on the heat and gradually bring the contents to the boil, <u>whisking all the time</u> until the sauce thickens

BLENDED SAUCES -are used for pouring (custards and gravy) or can be used to set in moulds. They **DO NOT** contain any fat. **Arrowroot** sauces are used to glaze sweet foods eg flans as they become **transparent** when boiled. **PROPORTIONS OF INGREDIENTS** – **CORNFLOUR BLENDED SAUCE** 275ml liquid (milk/fruit juice/stock) 15g cornflour 25g sugar (for sweet sauce.)

ARROWROOT BLENDED SAUCE 150ml liquid(usually fruit juice or water) 2-2.5g arrowroot flavouring and sugar if required **BLENDED METHOD** (i) Mix <u>a little</u> of the measure out starch <u>with a little</u> of the measured out liquid and blend together (ii) Heat the remaining liquid until it is almost at boiling point (iii)Pour this warmed liquid over the starch paste, <u>stirring all the time</u> (iv)Return the mixture to the heat and keep stirring all the time until it <u>boils and thickens</u> (arrowroot sauce will also become transparent) (v) Cook the mixture for a further 2 minutes to make sure all starch <u>gelatinises</u>

(D) REASONS WHY A STARCH BASED SAUCE MAY NOT WORK
>Too much or too little flour/cornflour/arrowroot >Too much or too little liquid >Adding
liquid too quickly in a roux sauce > Heating sauce too quickly or using too high a heat >Not
stirring/whisking whilst heating > Stirring irregularly >Not allowing the sauce to cook for long
enough >Not allowing sauce to boil (incomplete gelatinisation) >inadequate seasoning

(C) How are sauces thickened?

- **Starch** present in either wheat flour eg. White sauce, or cornflour eg. Custard or arrowroot eg. Glaze for desserts
- Puree of either fruit a (coulis) eg. Raspberry sauce or vegetables eg. Napoletana
- **Emulsion** of oil and water eg. Mayonnaise
- **Coagulating** properties of eggs eg. Egg custard
- Reduction of a liquid



1. WHAT IS DEVELOPMENT?

- **Development** is the progress of a country in terms of economic growth, the use of technology and human welfare.
- The **development gap** is the difference in standards of living and wellbeing between the world's richest and poorest countries.

2. MEASURING DEVELOPMENT

Indicators of development

Development is measured using a range of objectively-measured **indicators** (statistics) which cover economic and social aspects of a country. Economic and social aspects are linked (i.e. wealthy countries can afford to invest in healthcare).

Economic indicat	tors measure money and jobs.	Evaluation of development indicators		
Gross National Income (GNI) measures the total value of goods and services which a country produces, normally within a year. It is often divided by the population to give GNI per person (or per capita).		 Indicators can show the quality of education (literacy rate), health care (people per doctor) and infrastructure (access to safe water). Some indicators show how wealth and public services 		
Social indicators measure the population and standard of living (the level of wealth, goods and necessities available to people).		 combine to influence the size and change of population (birth rate, life expectancy, etc). Single indicators (social and economic) only consider one aspect of a country. This masks some countries 		
Birth rate	The number of births per 1000 adults.	which may have lower GNI but invest heavily in		
Death rate	The number of deaths per 1000 adults.	 healthcare (e.g. Cuba). GNI per capita suggests that wealth is spread equally. 		
Infant mortality rate	The number of children who die before their 1 st birthday, per 1000 births.	and this is normally not the case. Rich countries can have a few rich people and many poor people.		
Life expectancy The average age which a person can expect to live to.		 As well as wealth not being spread equally, some governments may not invest in health, education or infrastructure. So a country with good economic 		
People per doctor The number of people per qualified doctor. in:		indicators may have poor social indicators.Whilst standard of living can be objectively measured,		
Literacy rate	The percentage of adults who can read and write.	quality of life is subjective (opinion).		
Access to safe water	The percentage of people who can easily access clean water.			

To avoid the limited scope of single indicators of development which only consider one aspect, there are also **composite indicators** such as the **Human Development Index (HDI)**.

HDI includes life expectancy, number of years of education and GNI per head.

3. THE DEMOGRAPHIC TRANSITION MODEL

The **Demographic Transition Model** shows how a country's population typically changes as it develops. The model is split into five stages.

- In Stage One, countries have a high death rate due to disease, famine and war. People have a high number of children to allow for high infant mortality. The overall population is low and stable.
- As a country becomes wealthier and the standard of living improves, the death rate falls leading to a rapidly increasing population in Stage 2. This normally happens alongside industrialisation and urbanisation.
- Then as people need fewer children for financial reasons, the birth rate falls and population increase slows down in Stage 3 before low birth and death rates see a stable population in Stage 4.
- Increasing life expectancy leads to an ageing population (higher percentage of older people). This may see death rate overtake birth rate and the overall population to decrease in Stage 5.

Stage	1 High stationary	2 Early expanding	3 Late expanding	4 Low stationary	5? Declining?
40	Death rate	Birth rate			
30- Birth and death rates 20-			Natural		
(per 1000 people per year) 10-	Total population				Natural decrease
Examples	A few remote groups	Egypt, Kenya, India	Brazil	USA, Japan France, UK	Germany
Birth rate	High	High	Falling	Low	Very low
Death rate	High	Falls rapidly	Falls more slowly	Low	Low
Natural increase	Stable or slow increase	Very rapid increase	Increase slows down	Stable or slow increase	Slow decrease
Reasons for changes in birth rate	Many children needed children die at an early encouragement. No fa	for farming. Many v age. Religious/social mily planning.	Improved medical care and diet. Fewer children needed.	Family planning. Improving status Later marriages.	Good health. of women.
Reasons for changes in death rate	Disease, famine. Poor medical knowledge so many children die	Improvements in med and sanitation. Fewer	lical care, water supply children die.	Good health Reliable foo	i care. d supply.

PAPER 2 Economic World – Population & Uneven Development



7. CONSEQUENCES OF UNEVEN DEVELOPMENT				
Disparities in wealthNWealth inequality between countries and within countries is increasing.UIn 2018, eight people own the same wealth as the poorest 3.6 billion people in the world.EDisparities in healthR		Migration Uneven development can lead to migration: from LICs to HICs and also within countries to regions with more opportunities. Economic migrants move for jobs or better wages. This tends to be younger people. Refugees are forced to flee their home country due to war,		
Life expectancy is often lower in LICs tha Access to healthcare is normally better in HICs are better at preventing disease by clean water, better housing and public se	n HICs. n HICs. providing ervices.	Push factors force peop attract them to a place. Internal migration is m international migratior	ble away from a place and pull factors ovement within a country whilst a means moving countries.	
8. STRATEGIES TO REDUCE THE DEV	ELOPMENT GAP			
 Investment Money from HIC governments, international organisations (i.e. the United Nations) or TNCs can improve infrastructure (roads, energy network, Internet access) which improves trade or employment opportunities such as factories or hotels. Top-down investment supports large projects with large amounts of money. The effects should 'trickle down' through the economy to benefit people. Bottom-up investment gives smaller amounts to individuals and small businesses. People can then earn more which they spend in the local economy, spreading 		 Industrial Development The building of factories increases employment and wages. The wealth this generates can be invested in public services and improved housing. Industrial development has a significant multiplier effect, where investment in one activity leads to growth in other areas. For example, opening a factory creates employment not only at the factory but also at the companies supplying the factory and at nearby shops and services which the worker uses. The government also increases its tax income. Industrial development can be highly effective but could lead to environmental problems. 		
 Aid Aid is when a country or non-governmental organisation (NGO) such as Oxfam donates resources to help another country to develop. Aid can include grants (donated money), loans, emergency supplies, food or the skills of specialist people (i.e. doctors). Some aid can be short-term, such as disaster relief, and some can be long-term, to try and improve people's lives. Some aid is tied which means countries must meet a certain conditions, such as to purchase products from the donor country. The UK spends 0.7% of its Gross Domestic Product (a similar measure to GNI) on overseas aid. In 2013, Pakistan was the top recipient of UK aid receiving £338 million. 		 Intermediate technology Intermediate technology is sustainable technology that is appropriate to the needs, skills and wealth of local people. It is suitable for the local environment and doesn't put people out of work. Intermediate technology involves small-scale projects which can help with farming, water supply, transport or people's health. For example, water pumps to extract water from wells for drinking or farming. Chambamontera is a village in Peru. It was given a microhydroelectric power generator which allowed them to produce electricity from the mountain streams around the village. Locals were hired to run the generator and the electricity has improved standards of living. 		
Trade Fairtrade Countries can place a tariff (a tax) on imports which makes them more expensive than home-produced products. They can also put a quota (limit) on how many goods can be imported. This reduces the ability for LICs to sell their goods cheaply into HICs. Trading blocs are groups of countries which reduce or remove tariffs or quotas on all trade between members, e.g. the EU. Joining a bloc can be good for trade. Fairtrade gives farmers in LICs a fair price and invests in community development projects, raising standards of living.	 Loans and Debt Ration Countries can local countries, orgation Many LICs have to a debt crisis afford the repartion of the reparties of LICs in relief. By 2015, 36 out poor countries fully removed Monetary Fundation of the provided of the source of the source	elief lend money from other anisations and banks. repaid with interest. e built up debt leading where they cannot ayment. ve reduced or cancelled in what is called debt ut of 39 highly indebted is had had their debt by the International d (an international ank). frican countries still on.	 Microfinance Microfinance is providing small loans to poor individuals or families to set up or develop their businesses and earn an independent income. Microfinance has been particularly successful at allowing women to borrow money and start their own business. Grameen Bank in Bangladesh was set up in Bangladesh in 1976 and has lent over \$11 billion to 7 million people. It lends money to women to buy a 'village phone' which the women rent to people to research market prices for their goods. 	

3

PAPER 2 Economic World – India

9. TOURISM EXAMPLE: GOA

- Tourism is the main industry in the Indian state of Goa.
- Goa has 125km of coastline on the Arabian Sea where most tourism is focused.
- Goa has over one million tourists every year, 20% from overseas.
- People are attracted to Goa for beach holidays, water sports, wildlife and the cultural history from Goa's time as a Portuguese colony.
- Tourism has grown rapidly since Goa became a package holiday destination for European travel agents in 1986.
- **Positive impacts** tourism has created jobs, the multiplier effect means that many small businesses have benefited.
- Negative impacts deforestation to make space; massive reduction in water available; land prices too expensive for local people; sand dunes and swamps destroyed; leakage where profits from tourism go to companies in HICs and many managerial jobs are held by foreigners.

10. INDIA: CONTEXT AND IMPORTANCE



India is located in South Asia. It is located in the north and centre of Indian Ocean, giving it excellent transport links.

It is bordered by six countries: Bangladesh, Myanmar, Bhutan, Nepal, Pakistan and China.

India is the second most populous country in the world with 1.3 billion people. 34% of the population live in urban areas (compared to 83% in the UK).

 Political The country is a member of the United Nations (UN), the World Trade Organisation (WTO) and the Commonwealth. Most of India was part of the British Empire. India is the world's largest democracy. 	 Social 16 million Indians live in the largest diaspora (spread of people from their country of origin) of any country. Life expectancy (2015)was 69.8 for women and 66.9 for men. 	 Economic India is a newly-emerging economy. India is the 5th largest economy in the world, ahead of France (6th) and the UK (7th). In 2016, India has \$261 billion of exports. 				
 Culture India is mainly Hindu, but also has the third largest Muslim population in the world. The Bollywood film industry has the most cinema admissions of any country. 	 Environment The country has two monsoon seasons – north-east and southwest – lasting from June to October. In 2014, India ranked 155th out of 178 countries for environmental quality. 	 Other India has the second largest active military in the world. India's HDI score has increased from 0.427 in 1990 to 0.640 in 2017. 				
11. INDUSTRIAL STRUCTURE						
1990 Tertiary (services) 41% Secondary Yrimary (Agriculture) 33% • Ug of • M he • Th ru	until the 1980s, India was an LIC and the primary sector was the largest section the economy. Many people were subsistence farmers. nufacturing has expanded. This has created millions of jobs. The government has ped this with its 'Make In India' initiative. the increase in manufacturing and services, and decrease in agriculture has led to al-urban migration.					

- Services are now the biggest contributor to GDP. India now has a skilled workforce and poverty has reduced.
- India is unusual in expanding its service sector faster than its manufacturing sector. This is largely through TNCs opening call centres and offices in India to take advantage of the high number of English-speaking workers.



12. TRADE			
India's top trading partner is China. Between 2006 and 2012, trade trebled from \$252 billion to \$794 billion			
Imports India imports raw materials and products from many countries. India imports crude oil and machinery for industry. It also imports gold, silver and electronic goods for its growing middle class.	Exports The UK is the 8 th largest importer of Indian goods. India's main exports are petroleum products (made from crude oil), transport equipment and clothing.		
13. TRANSNATIONAL CORPORTATIONS			
NEE) and its branch offices and factories are in NEEs and LICs. TNCs do this to take advantage of cheaper costs of production and lower wages. They can also access more consumers by working in multiple countries. Since 1991 India's government has opened the country to investment by TNCs. Investment has increased from \$233 million in 1992 to \$44 billion in 2015. The country where TNCs have branches are called host countries.			
 Advantages of TNCs Create jobs for local people. Investment has a multiplier effect. Invest in infrastructure. Offer new skills and training which can be transferred into local businesses. Pay taxes. Local businesses make money supplying TNCs. 	 Disadvantages of TNCs Working conditions and wages can be poor. Leakage of profits back to the TNC's home country. Management jobs can go to foreign staff. TNCs take advantage of weaker environmental laws and use many natural resources, such as fresh water. 		
 Example of a TNC: COCA COLA Coca-Cola has invested in India since 1993 and will have spent \$7 billion by 2020. Sells products in 2.6 million outlets. Employs 25,000 directly and 150,000 indirectly through 57 factories and their 			

- supply chain.
- Coca-Cola bought four local rivals in 1993 and now dominate the market.
- Works with 56,000 farmers to source fruit locally.
- Aware of its water usage, Coca-Cola replenishes 138% of the water it uses. It does this by investing in water storage and dams.
- Invests in communities through its own charity Anandana.

14. POLITICAL RELATIONSHIPS AND AID

India has historically tried to avoid close alliances with any single country. That said, India does has a strong political and economic relationship with the UK since gaining independence from the British Empire in 1947. As one of the world's major newly-emerging economies, it has also formed close relationships with Brazil, Russia and China, making up the BRIC club of countries.

Aid

India has received aid from many HICs, including the USA and Canada. India was one of the largest receivers of aid from the UK, with over £200m given by the UK government each year.

UK aid has invested in education, sanitation and health and for small business support. UK aid to India stopped in 2015, noting that the Indian government spends £600m a year on space exploration. It wants to do more **multilateral** (two-way) trade rather than **unilateral** (one-way) aid donations in future to help India develop further.

PAPER 2 Economic World – India

Differences or inequalities.

Disparity

15. TRADE				
 Environmental impacts Increasing industrialisation and urbanisation has seen increased water and air pollution. The National Green Tribunal is an environmental court set up in 2010. The tribunal is helping clean up cities by ensuring individuals and companies are made to pay compensation for pollution. Increasing waste has led to significant waste disposal problems and a large increase in landfill (rubbish dumps). Some cities have very high recycling rates, driven by the informal economy around selling recyclable materials. This includes E-waste (old computers and electronic equipment). Cites like Mumbai have introduced new public transport networks, banned diesel cars and checks on factories. 		 Human impacts Manufacturing and service sectors have created jobs and increased wages. This has seen India's middle class grow. Life expectancy has increased from 38 to 68 in thirty years. An older population has reduced young dependents and increased the proportion of working age people. Rapidly growing urban populations have led to the growth of squatter settlements. Many people still live in inadequate housing, both in urban and rural areas. Corruption and the size of the country means that some investment has not improved life in rural areas. India has reduced poverty from 55% to 34% between 2005-2016. 		
KEY TERM	DEFINITION			
Limitation A limiting rule or circumstance; a rest		triction.		
Consequences A result or effect, typically one that is		unwelcome or unpleasant.		
Inequality Lack of equality or fairness.				
Traditional	Existing in or as part of a tradition; lon	ng-established.		

HISTORY KNOWLEDGE ORGANISER – CRIME AND PUNISHEMENT UNIT THREE – INDUSTRIAL ENGLAND, 1700 – 1900.

 (a) New crime: Smuggling water an important introduced import duties on goods from a financed. Geode start has a financed see on the introduced in port duties on goods from a financed. Geode start has a financed see on the introduced in port duties on goods from a financed. Geode start has a financed see on the introduced in port duties on goods from a financed. Singling was organised by comparison is to the rands in the cumptybes meant that more goods and noney were moved by road. Smuggling basing based in fixet and led by Thomas Thomas King be called the service see on set by good finance is to the rands in the cumptybes meant that more goods and noney were moved by road. Smuggling basing based in fixet and led by Thomas King payrise from their leaves to the subbindities. Smuggling basen to decine affect and indicate the powerment in duced the death penalty for any none who was found arrow were found a link of a fixet by the goods in TAB. Smuggling basen to decine affect and indicate the powerment reduced in port duties on formed a Trade Union. Smuggling basen to decine affect and the powerment reduced in the cumptyber with indicate the roads. The ever end the radius the powerment reduced in the roads. The ever end the roads. The ever goods in TAB. Watchowers were also built along the posting culture to the reduced in the roads. By addition to reduce the roads. <l< th=""><th></th><th></th><th></th><th></th><th></th></l<>					
 Smugging became an important crime in the 1700. This water 17	(a)	New crime: Smuggling	(b) New crime: Highway robbery	(c) New crime: Poaching	(d) Case Study: Tolpuddle Martyrs
crime in the 1200s because the goverment introduced import dutes on goods from abroad. Goods fisch ad whore. Singegling was organised by criminal gang, which was based in kert and led by Thomas Kingsmill. Singegling was organised by criminel gang. The most famous was based in kert and led by Thomas Kingsmill. Singegling was organised by criminel gang. The most famous was based in kert and led by problem by many people. It was viewed as 5 scalar inter and people were reluctant to report suggling began to decline after into duced the death penalty for anyone who was found armed and in diguise on the reads the powerment to the roads through the turnphese meant that more people chose to trace. In 1772 the government into duced the death penalty for anyone who was found armed and in diguise on the roads the powerment teaduced import. The newspapers made highway means in periods the powerment teaduced import. The newspapers made highway means in periods the powerment teaduced import. The newspapers made highway means in periods the powerment teaduced in 280 to the power as ab oblic the powerment teaduced in 280 to the power as ab oblic highway means in periods the powerment teaduced in 280 to the power as ab oblic the powerment teaduced in 280 to the power as ab oblic the power as ab oblic highway means in periods the power as ab oblic the power as	•	Smuggling became an important	• Highway robbery became a major	Poaching had existed since	In 1834 George Loveless and 5
government introduced import duties on goods from abroad. Goods that had import duties produced so social so that had import duties produced the death penalty for anyone who was found able to carbit in the property of souggling was not seen as a big problem by many people. It has that introduced the death penalty for anyone who was found able to carbit in the property of souggling was not seen as a big and in digulas on the roads. The new spapers made and in digulas on the roads. The new spapers made they began to decline after dution for her adong the cost and a' cost into clocking and professional able. they began to patcine after duties on foreing goods in 1782. The sow Street Runners were established in 1748. Front decing and abrits diming which hundreds of animas. (d) What led to prison reform? they began to patcine after duties on fore from Sparet System' conditions the professional police they do fored an regular with good food and regular with good food and regular with a to faring and abritse they do fored an regular with good food and regular with good f		crime in the 1700s because the	problem after 1700. This was	Norman times – the Forest Laws	others were arrested for
duties on goods from abroad. Goods fint hat import duties placed on them included perfumes, spirits and wine.wealth. As Britain became wealth. Brita Britain		government introduced import	caused partly by Britain's growing	after 1066 were designed to stop	demanding a pay rise from their
Goods that had import duties placed on them included performers, spirts and wine.just 6 shillings per week. The ause of away of the turnylexe meant that through the turnylexe meant that the government reduced the death penalty for anyone who was found and in digulex on the roads. in 1727 the government the government reduced import duties on foreign goods in 178. The swas spares made into Locket in 178. The swas carried the duting that proteen should adong the cash that 222 crimes and a' coast into 2004 meant that 222 crimes and a' coast into 1000 holding for they began to paction a fly that led to prison reform? The Biowy forber was in 1831. they began to paction a fly they order was they began to paction a fly they began to paction a fly they began to paction a fly they order was they began to paction a fly they order was that they began to paction a fly they order was they began to paction a fly they began to pactin a fly they began to paction a		duties on goods from abroad.	wealth. As Britain became	poaching. However, poaching	local landowner. They were paid
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Highway robbery	A robbery that takes place whilst someone is travelling on the roads. The crime is committed by a 'highwayman'.
Import Duties	Taxes on goods imported from other countries
Martyr	A person who is killed or suffers because of their beliefs or actions .
Oath	A serious promise about future behaviour and loyalty.
Pardoned	To be forgiven of a crime and have the punishment reversed.
Poaching	Illegally hunting on private land.
Reform	To make changes to improve something.
Smuggling	Bringing items into a country illegally.
Trade Union	An organisation which helps workers to get better rights and higher pay. This is done through negotiations, or sometimes strkes.
Turnpikes	Roads which were allowed to charge a fee to people who used them. The money raised was used to improve the quality of the road.
Settlers	A person who moves with a group of others to live in a new country or area. Settlers are also referred to as colonists.
Urbanisation	The growth of towns and cities.
Warden	A prison guard.

HISTORY KNOWLEDGE ORGANISER – CRIME AND PUNISHEMENT UNIT FOUR c.1900 TO THE PRESENT DAY.

Abolition	When something is ended
Borstal	A prison for young offenders.
Conscientious objector	A person who refuses to fight in a war due to their beliefs.
Conscription	When the government forces people to join the army.
Criminalise	When something is made illegal.
Decriminalise	When an action is no longer a crime in the eyes of the law.
Domestic Violence	Violent or aggressive behaviour in the home, typically between a married couple.
Joint enterprise	When an individual is jointly convicted of the crime of another. This is used if the court decides they knew that the other person
	involved was likely to commit that crime.
Miscarriage of justice	When a court gets a decision wrong or the wrong person is punished.
Non-custodial	A punishment which does not involve being sent to prison.
Open prison	A prison in which inmates can leave during the day to go out to work but have to return in the evening.
Parole	The release of a prisoner before the end of their sentence based on good behaviour.
Probation	When an offender is not sent to prison or released from prison but is closely monitored.
Restorative justice	When a criminal meets the victims so that he/she can understand the impact that the crime had on the victims' lives.
Tribunal	A special court set up to deal with disagreements

HISTORY KNOWLEDGE ORGANISER – WHITECHAPEL DEPTH STUDY C.1870 - 1900

 (a) Problems in Whitechapel Whitechapel is an area in the east end of London. At this time the main problems were: Overcrowding – there were just 4,000 houses for around 30,000 people. The best housing was on the Peabody estate but the people who lived there had to follow strict rules. Work – sweatshops paid low wages to workers who undertook 20 hour shifts. Dock work was insecure as the men would not be given contracts. Many people lived in lodging houses (or 'doss houses') where a room could be rented by the day for 4d. For the most impoverished people in Whitechapel the workhouse was the only option. Inmates in the workhouse would be given food and 	 (b) Victorian beliefs about the causes of crime There was a belief that some people were 'born criminals' – meaning that it was just in their nature to lie, steal, fight and rob. Such people were called the 'residuum'. Overcrowding was believed to spread criminal behaviour. In Whitechapel's rookeries, lodging houses and pubs it was said that the residuum influenced 'decent people' and made them into criminals. Alcohol was viewed as an important cause of crime as it made people more likely to commit violent acts and because drunk people could easily become the victims of crime. There was a belief that immigrants in Whitechapel 	 (c) Prejudice against immigrant groups in Whitechapel Irish immigrants were stereotyped as violent drunks by the media. A small groups of Irish Fenians (who wanted Ireland to be independent of British control) organised bombings such as 'Dynamite Sunday' in 1885. The actions of this small group increased suspicions amongst the people of Whitechapel of all Irish immigrants. As Jewish businesses often employed only Jewish workers there was anger that recent Jewish immigrants were sometimes able to find work quickly when many 'native' workers were unable to. Jewish immigrants were accused of holding extreme political views such as socialism 	 (d) Policing in Whitechapel The Metropolitan (London) Police Force was divided into 20 divisions. Whitechapel was policed by H-Division. H-Division had around 575 officers. These officers would walk a 'beat' approximately 40 times during a 9 hour shift. H-Division officers were supported by the Criminal Investigation Division (C.I.D) who provided intelligence through detective work and undercover operations. The main problems faced by H- Division included high levels of alcoholism, gangs (including Bessarabian gangs) who ran protection rackets, a negative attitude towards the police from some Whitechapel residents (particularly immigrants) and a shortage of detective in the C.I.D.
would be given food and shelter but were made to do hard labour.	immigrants in Whitechapel were responsible for organising gangs and thefts.	political views such as socialism and anarchism .	detective in the C.I.D.
 (e) Attitudes towards the police in Whitechapel Many people in Whitechapel had a negative attitude towards the police because: 1829 – When the police force was created there were rumours that it was a way of the government spying on and trying to control the people. 1877 – Some detectives were found guilty of accepting bribes in the 'Trial of the Detectives'. This was hugely embarrassing for the Police Commissioner at the time, Edmund Henderson. To improve the quality of the detective force Henderson introduced the C.I.D in 1878. 1883 – 1885 – The C.I.D failed to prevent a series of Fenian bomb attacks. 1886 – Edmund Henderson resigned after his officers failed to control a protest in Trafalgar Square. He was replaced as Commissioner by Charles Warren. 	 (f) The police investigation into the 'Jack the Ripper' murders The five women murdered by 'Jack the Ripper in 1888 were Mary Nichols (31st Aug), Annie Chapman (8th Sept), Elizabeth Stride (30th Sept), Catherine Eddowes (30th Sept), Mary Kelly (9th Nov). Detailed observations of the crime scenes were undertaken in most cases (although Mary Ann Nichol's body was moved before a detective inspector could investigate it). A huge number of interviews were conducted with potential suspects and witnesses. In total 2,000 people were spoken to in connection with the killings. Autopsies revealed that the killer was probably left handed and had a knowledge of anatomy. New methods such as criminal profiling, photographing crime scenes and using blood hounds were tried. 	 (g) Problems within the police during the Ripper investigation 50 extra police officers and some soldiers were brought in to support H-Division. There was however criticism that no extra detectives were brought in. Commissioner Charles Warren fell out with the Home Secretary, Henry Matthews, several times during the investigation. This made decision making difficult and made H-Division look disorganised. A key piece of evidence was found outside of Whitechapel when a section of an apron belonging to Catherine Eddowes was found outside of Whitechapel. Next to the apron was a piece of anti-Jewish graffiti. The City of London police wanted to photograph the evidence but Charles Warren ordered that it be washed off the wall. 	 (h) How the media and public hindered the investigation The newspapers wrongly accused several people of being the Ripper, most famously the Daily Star claimed that the Ripper was a Jewish immigrant called John Pizer. False accusations such as these wasted a lot of police time. The newspapers did not share key evidence with the police quickly enough, including letters like the 'Dear Boss' letter which was almost certainly written by the killer. The media constantly criticised the police which made people lose faith in the investigation. The Whitechapel Vigilance Committee attempted to catch the Ripper, but this harmed the investigation as they bullied and bribed people in Whitechapel to speak to them, rather than to the police. Over 300 hoax letters were sent to the police by the public.

Anarchist	A political idea which opposes any kind of government.
Autopsy	The investigation of a dead body.
Bessarabian	The name given to an area of Eastern Europe in the nineteenth century. It was used as a term for all East European immigrants
Fenian	A group who wanted Ireland to be free from British control.
Gin palace	A well-decorated pub selling cheap, strong gin.
Ноах	False information to fool somebody.
Lodging House	A building converted into many small bedrooms. People could pay a fee of 4p to rent a room for 24 hours. Also called a 'dosshouse'.
Satire	Writing or art which humorously makes fun of famous people, current events or institutions.
Socialist	A political idea which aims to spread wealth more evenly across society.
Rookery	An area of tightly packed buildings in a poor area.
Sweatshop	A factory which employs workers for long hours and low pay. Workers sometimes live inside the factory.
Vigilance Committee	A group of Whitechapel residents who set up their own vigilante force to catch 'Jack the Ripper'.
Workhouse	A building which offered food and shelter to people who had nowhere else to go. Conditions were deliberately awful to make sure it
	was only used as a last resort.

MATHS 10A 10D 10F SPARX Code(s) KO Pages Vocabulary					
Year Group Movie - A BEAUTIFUL MIND					
		SPRING 1			
	on V	Sketch Graphs of Trigonometric Functions	U450	27	proportion
2	igo⊧	Use Trig Graphs to find Values	U450	27	currency
Ž	μ	END OF UNIT FEEDBACK			change
		Sampling / Stratified Sampling			profit
	I	Capture Recapture			loss
2		Geometric Mean and Weighted Mean			ratio
3	s 2	Standard Deviation: Of Discrete Data			like terms
	Stat	Estimate of Standard Deviation for Grouped Data			dimension
	3	Use Standard Deviation - Making Estimates			heptagon
¥ X	Ne	Index Numbers, Chain Based Index Numbers			kilo-
Ν		RPI, CPI and GDP			
		Rates of Change			
4		Population Pyramids			
٨k	u	Recognise and Interpret Graphs Showing Direct and Indirect Proportion	U238	32	
1	orti	Set up and use equations to solve direct proportion problems	U640	32	
k 5	odo.	Set up and use equations to solve inverse proportion problems	U138	32	
Ν	Ъ,	END OF UNIT FEEDBACK			
	Ð	Surface Area of a Prism and Cylinder	U464 U259	42	
k 6	fac	Volume of a Prism and Cylinder	U174 U915	43	
IM	Sur	Convert Between Metric Units of Volume/Capacity	U388	43	
	nd S ea	Volume and Surface Area of Pyramids	U871 U484	42, 43	
	Ar	Volume and Surface Area of Cones	U523 U116	42, 43	
k 7	emi	Frustums	U334 U350	43	
Ν	/olt	Volume and Surface Area of Spheres and Hemispheres	U893 U426	43	
	-	Harder Volume & Surface Area Problems	U771	43	
FEBRUARY HALF TERM					

		MATHS 10E 10C 10T	SPARX Code(s)	KO Pages	Vocabulary
		Year Group Movie - A BEAUTIFUL MIND	•		
		SPRING 1			
		Solve Simple Equations	U755	15	unitary
د 1	S	Solve More Difficult Equations with negatives and brackets	U325	15	similar
Ń	itie	Solve Equations with Unknowns on Both Sides	U870	15	express
	lual	Form and Solve Equations	U599	17	measure
2	heq	Rearrange equations that involve 2 steps such as $ax + b = c$	U556		compare
Υ K	 ళ	Rearrange two equivalent fractions where the variable is the denominator	U556		quotient
Λ	sue	Introduction to Inequalities (Represent on a Number Line)	U509	19	tangent
3	atio	Solve Linear Inequalities	U759	19	plane
٨	nb	Writing Error Intervals (including truncation)	U145		density
٨	ш	Solve simple simultaneous equations	U760 U757		tera-
4		END OF UNIT FEEDBACK			
× K		Index Numbers, Chain Based Index Numbers			
		RPI, CPI and GDP			
5	tats	Rates of Change			
λ×	Ó ≥	CF Curves	U642		
1	Nev	Boxplots	U879 U837 U507		
		Outlier / Skewness			
k 6		END OF UNIT FEEDBACK			
8	s E	Recognise and continue Simple Sequences (including Fibonacci)	U213	22	
	Ter	Using and Finding the Nth Term of Linear Sequences	U498	22	
2	luer	Recognise Sequences in Diagrams and draw the next term	U978	22	
۷k	Seq	Using the Nth Term of Quadratic Sequences	U206		
	ar	Geometric Progressions	U681		
		FEBRUARY HALF TERM			

Free Time Activities: GCSE Foundation Tier Spanish Knowledge Organiser

Key Ideas

- los pasatiempos (normalmente, en el pasado, en el futuro)
- los aspectos positivos del ejercicio
- los deportes individuales o los deportes
- de equipoa favor o en contra de los deportes extremos
- las ventajas y los inconvenientes de ver la televisión o de ir al cine
- la música
- Io que como, la comida extranjera y comer en un restaurante



to walk

andar

el aire libre	outdoors
el alpinismo	mountain climbing
el baile	dancing
el baloncesto	basketball
la bici/bicicleta	bike, bicycle
la carne/el pescado/ la fruta/as verduras	meat/fish/fruit/vegetables
la equitación	horse riding
el estadio	stadium
el fútbol	football
el monopatín	skateboard
la natación	swimming
el partido	match

la películafilmle tenistennisLos adjetivostennisadurrido/aboringaburrido/atiringcansado/atiringdelicioso/adeliciousinteresanteinterestingpelígroso/adangerous	el patinaje	skating
el tenistennisLos adjetivoshennisaburrido/aboringaburrido/atiringcansado/atiringdelicioso/adeliciousinteresanteinterestingpeligroso/adangerous	la película	film
Los adjetivosaburrido/aboringaburrido/aboringcansado/atiringdelicioso/adeliciousinteresanteinterestingpeligroso/adangerous	el tenis	tennis
aburrido/aboringcansado/atiringdelicioso/adeliciousinteresanteinterestingpeligroso/adangerous	Los adjetivos	
cansado/atiringdelicioso/adeliciousinteresanteinterestingpeligroso/adangerous	aburrido/a	boring
delicioso/adeliciousinteresanteinterestingpeligroso/adangerous	cansado/a	tiring
interesante interesting peligroso/a dangerous	delicioso/a	delicious
peligroso/a dangerous	interesante	interesting
	peligroso/a	dangerous

bailar	to dance
beber	to drink
cantar	to sing
comer	to eat
correr	to run
jugar	to play
montar (a caballo, en bici)	to ride (a horse/bike)
nadar	to swim
patinar	to skate
tocar	to play (an instrument)

Key Verbs

Infinitivo	Presente	Pasado (Pretérito)	Futuro
hacer - to do	yo hago ; él/ella hace ; nosotros/as hacemos	yo hice ; él/ella hizo ; nosotros/as hicimos	yo haré ; él/ella hará ; nosotros/as haremos
ser - to be	yo soy ; él/ella es ; nosotros/as somos	yo era ; él/ella era ; nosotros/as éramos	yo seré ; él/ella será ; nosotros/as seremos
estar - to be	yo estoy ; él/ella está ; nosotros/as estamos	yo estuve ; él/ella estuvo ; nosotros/as estuvimos	yo estaré ; él/ella estará ; nosotros/as estaremos
comer - to eat	yo como ; él/ella come ; nosotros/as comemos	yo comí ; él/ella comió ; nosotros/as comimos	yo comerė ; ėl/ella comerá ; nosotros/as comeremos
beber - to drink	yo bebo ; él/ella bebe ; nosotros/as bebemos	yo bebí ; él/ella bebió; nosotros/as bebimos	yo beberé; él/ella beberá; nosotros/as beberemos
ir - to go	yo voy ; él/ella va; nosotros/as vamos	yo fui ; él/ella fue ; nosotros/as fuimos	yo iré ; él/ ella irá ; nosotros/as iremos







				Free Time Ac	tivities: GCSE Foundation Tier Spanish Knowledge Organiser
Key Phrases		Tricky Pronunciat	ion: Practise	these with your teacher!	Key Questions 1 Háhlame de tus aficiones
Estoy interesado/a en	'm interested in	la equitación	hc	orse riding	Talk to me about your hobbies.
Me apasiona	'm passionate about	el natinaie	43	ating	2. ¿Te gusta hacer ejercicio?
He jugado a fútbol los sábados por la mañana desde hace cinco años.	've been playing football on aturday mornings for five years.	delicioso/a	de de	elicious	Do you enjoy exercising? 3. ¿Qué prefieres: el fútbol o la natación?
Cuando era pequeño, V hacía judo. d	When I was young, I used to to lojudo.			ø	What do you prefer, football or swimming? 4. ¿Qué piensas sobre los deportes extremos?
Soy un/ una fan de la _I ' cantante Beyoncé.	'm a fan of the singer Beyoncé.				What do you think of extreme sports? 5. ¿Prefieres ir al cine o ver la televisión? Do sum serfer acier de Alo cinemo ser unadeire a Tra
Detesto las telenovelas.	hate soap operas.				Do you preter going to the chieffa of watching 1 V ?
Como mucha comida	eat a lot of fast food, it's a				o. ¿oue genero de musica preneres? What genre of music do vou like?
basura, es un problema. p	iroblem.		10		7 : Ouid to must comment?
Juego al fútbol para estar	play football in order to stay		N		 . εφμε τε gusta content What do you like to eat?
en forma.	n shape.				
En mi opinión, los deportes ^I extremos son peligrosos. d	n my opinion extreme sports are langerous.				Useful Grammatical Structures
					 Use modifiers to modify an adjective. Examples include: bastante (quite); un poco (a bit).
					• Use intensifiers to intensify an adjective. Examples include: realmente
7					(really); muy (very); particularmente (particularly); totalmente (totally); completamente (completely).
K			00		 Use connectives and conjunctions to make longer sentences. Examples include: porque (because); ya que (as/because); pero (but); sin embargo (however); cuando (when); although (aunque).
Je		Tricky spellings			
	1 and 1	aburrido/a	boring	Check: double r (rr).	
N N		el fútbol	football	Check: the accent.	
	7	la natación	swimming	Check: the accent.	
1		la película	film	Check: the accent.	
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Secondary			Page	2 of 2	visit twinkl.com

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Key Ideas

- Los pasatiempos (normalmente, en el pasado, en el futuro).
- Los beneficios del ejercicio.
- Los deportes individuales o los deportes de equipo.
- A favor o en contra de los deportes extremos.
- Las ventajas y los inconvenientes de ver la televisión o de ir al cine.
- La música y cómo la escuchas.
- Lo que como, la comida extranjera y comer en un restaurante.



Key Vocabulary

VOS	
stanti	
ns so	

interesting dangerous

interesante

prize

la alimentación	food, nourishment	el premio
el cantante/la cantante/	the singer (m/f)/the	la propina
el actor/la actriz	actor/the actress	اء ممامحماضه
		la seleccion
ומ נמו ופומ	ומרב	ol corio
loc demontor de ocuine/	+com/induidual/	
individuales/de riesgo/	extreme/traditional	la telenovela/e
tradicionales	sports	concurso/los di
los denortes de invierno/	winter snorts/summer	animados
de verano	sports	
La música pop/rock/	pop/rock music/indie	Los adjetivos
alternativa	dod	aburrido/a
los pasatiempo	hobbies	e/opesaes
la película de miedo/ romántica/de guerra/de	horror/romantic/war/ thriller (film)	delicioso/a
policías		emocionante
el piragüismo	canoeing	escalofriante
el piragüismo	canoeing	ë

la propina	tip	peligroso/a
la selección	team, side	
el socio	member	Los verbos
la telenovela/el	soap opera/	apetecer
concurso/los dibujos	gameshow/cartoon	beber
altillauus		costar
Los adjetivos		descargar
aburrido/a	boring	escoger/ele
cansado/a	tiring	estar inter
delicioso/a	delicious	jugar

exciting

scary

Los verbos	
apetecer	to fancy/to feel like
beber	to drink
costar	to cost
descargar	to download
escoger/elegir	to choose
estar interesado en	to be interested in
jugar	to play
leer	to read
unirse a/participar en	to join

Kev Varhe

Infinitivo	Presente	Pasado	Futuro	Condicional	Imperfecto
hacer – to do	yo hago ; él/ella hace ; nosotros/as hacemos	yo hice; él/ella hizo ; nosotros/as hicimos	yo haré ; él/ella hará ; nosotros/as haremos	yo haría ; él/ella haría ; nosotros/as haríamos	yo hacía; él/ella hacía ; nosotros/as hacíamos
ser – to be	yo soy ; él/ella es ; nosotros/as somos	yo era; él/ella era ; nosotros/as éramos	yo seré ; él/ella será ; nosotros/as seremos	yo sería ; él/ella sería ; nosotros/as seríamos	yo era ; él/ella era ; nosotros/as éramos
estar- to be	yo estoy ; él/ella está ; nosotros/as estamos	yo estuve; él/ella estuvo ; nosotros/as estuvimos	yo estaré ; él/ella estará ; nosotros/as estaremos	yo estaría ; él/ella estaría ; nosotros/as estaríamos	yo estaba; él/ella estaba; nosotros/as estábamos
tener- to have	yo tengo ; él/ella tiene ; nosotros/as tenemos	yo tuve; él/ella tuvo ; nosotros/as tuvimos	yo tendré ; él/ella tendrá ; nosotros/as tendremos	yo tendría ; él/ella tendría ; nosotros/as tendríamos	yo tenía; él/ella tenía ; nosotros/as teníamos
ir- to go	yo voy ; él/ella va ; nosotros/as vamos	yo fui; él/ella fue ; nosotros/as fuimos	yo iré ; él/ella irá; nosotros/as iremos	yo iría ; él/ella irías ; nosotros/as iríamos	yo iba; él/ella iba ; nosotros/as íbamos
leer- to read	yo leo ; él/ella lee ; nosotros/as leemos	yo leí ; él/ella leyó; nosotros/as leímos	yo leeré ; él/ella leerá ; nosotros/as leeremos	yo leería ; él/ella leería; nosotros/as leeríamos	yo leía ; él/ella leía ; nosotros/as leíamos
comer- to eat	yo como ; él/ella come; nosotros/as comemos	yo comí; él/ella comió ; nosotros/as comimos	yo comeré ; él/ella comerá ; nosotros/ as comeremos	yo comería ; él/ella comería; nosotros/ as comeríamos	yo comía ; él/ella comía; nosotros/as comíamos





cher! Key Questions	1. Håblame de tus aficiones Talk to me about vour hobbies	2 : fuidae con los banafísios del aiarcisio?	What are the benefits of exercise?	3. ¿Prefieres los deportes individuales o de equipo?	Do you prefer individual or team sports?	4. ¿Qué piensas de los deportes de riesgo?	it. What do you think of extreme sports?	tt. 5. ¿Prefieres ir al cine o ver la televisión?	Do you prefer going to the cinema or watching TV?	6. ¿Cômo escuchas música? ¿Qué género de música prefieres?	ante How do you listen to music? Which genres do you like?	 7. Describe tus habitos alimenticios. Describe your eating habits. 		idue).		ł	Ised	erite a.g. la 4. my	, e.g.		visit twinkl.com
iese with your teac	eing			ouse			Check: the accen	Check: the accen		- - - -	Examples include: bast	cive. Examples include: ularmente (particularly (completelv).	make longer sentences. A que (as/because); per	o (when), although (aun	uctures	epetition of a noun. In . e.g. mis padres lo ven (omething you regularly aloncesto los sábados (I	aturdays). Use the prete completed in the past, e s a la piscina (last week	ool). tences more interesting nigos (if I have time I v	presionante (exciting).	of 2
tion: Practise th	cano	CLan.					music	film		cal Structures	moairy an adjective 'a bit)	co intensify an adjec); muy (very); partic [v): completamente	and conjunctions to s: porque (because):	go (however); cuand	irammatical Str	pronouns to avoid in front of the verb	t tense to describe s e.g. iba a jugar al b	play basketball on S at actions that were mi madre y yo fuimu	to the swimming p Si to make your ser iré al cine con mis a	th my friends). .g emocionante = im	Page 2
Tricky Pronuncia	el piragüismo	escalofriante		ugala/jagoosa	Tricky spellings		la musica	la película		Useful Grammati	 Use moainters to (quite), up poco (Use intensifiers to ally realmente (really totalmente (total 	 Use connectives Examples include 	(but); sin embarg	More Advanced G	 Use direct object Spanish, these gc parents watch it) 	 Use the imperfec to do in the past, 	used to go to the tense to talk abou semana pasada, '	mum and I went Use clauses with si tengo tiempo, i	to the cinema wi • Use synonyms , e.	
	I'm interested in	I'm passionate about	I've been playing football on	saturday mornings for five years.	I joined the tennis club two	years ago.	When I was young, I used to	pray juuo.	I'm a fan of the singer Bevoncé	I liston to music whilet doing	my homework.	My parents watch soaps every night but I find them boring.	Horror films scare me. I never watch them.	Cinema tickets are too expensvie so I prefer to	download films.	I've lots of bad eating habits becuase I'm addicted to fast food.	Although I'm not sporty, I love swimming.	Doing regular exercise is important for keeping in shape.	In my opinion, extreme sports are more dangerous than traditional sports.		
Key Phrases	Estoy interesado/a en	Me apasiona	He jugado a fútbol los	sabados por la manana desde hace cinco años.	Me apunté al club de tenis	hace dos años.	Cuando era pequeño/a, hacía	Juao.	Soy un/una fan de la cantante Bevoncé	Eccucho cu múnico cumado	hago mis deberes.	Mis padres ven telenovelas cada noche pero las encuentro aburridas.	Las películas de miedo me asustan. Nunca las veo.	Las entradas para el cine son demasiado caras así que	prefiero descargar películas.	Tengo muchos hábitos alimenticios malos porque soy adicto/a a la comida basura.	Aunque no soy deportista, me gusta nadar/la natación.	Hacer ejercicio regularmente es importante para mantenerse en forma.	En mi opinión, los deportes de riesgo son más peligrosos que los tradicionales.		Secondarv

GCSE TEXTILES AO1

Develop ideas through investigation, demonstration and critical understanding of sources.

What is a Source?

A source can be anything you are inspired by, examples are listed below that can be included in your sketchbook.

A Theme Mind Map:

Mind map all the things you can think of relating to your topic, this can include images.

Mood Board: Collect images linked to your theme and add to a mood board, annotate.

Artist/Designer Analysis: Look at an existing Artist/Designer and complete an Analysis of their work.

<u>Take your own photographs:</u> You can use your own photos as a source of inspiration. Annotate them explaining how they link to your theme.

How to Analyse a Designer/Artist:

- Introduce their work, key facts only.
- Are there any social, environmental, moral, issues surrounding their work?
- Consider what key features appear regularly in your designers work, why might that be?
- What colours do they use a lot of? What effect does this give?
- Who do you think their designs are aimed at ? Why?
- Explain what you like/ dislike about the designs and why.
- What techniques has the designer used? Why? Could different techniques be used to create different effects?
- How will this designer inspire your work?
- How does the designer fit the theme?
- What techniques will you sample and why?

Below are some examples of what you need to do when you have analysed a source :

Complete a Textile Sample using your source as inspiration. Do some initial sketches. Compare 2 different sources.

Key words: Aesthetics Style Process Trend Connotation Textile Technique Colour Line Tone Form Texture Shape Decoration Repetition Scale Structure Pattern Composition Annotation illustration

<u>Key</u> points:

There is a difference between analysing and stating. Analysing will always get you more marks.

Denotation: Literally stating what something is.

Connotation: Explaining the meaning of something, what it connotes.

GCSE TEXTILES AO2

Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, processes and techniques.

How do I meet the assessment objectives?

- Refine work: Quality over quantity. Go back to old samples and develop them. Compare samples, what works? What does not work?
- Explore ideas: This can be as a sketch or textile sample. Try to create the idea in your head and remember if it does not work , don't worry it is a sample.

 Experimenting with appropriate media, materials and techniques: Practice creating samples using a wide range of techniques and the correct materials. Don't be afraid to experiment and combine different techniques, think outside the box.

How to evaluate a sample:

What have you done? What techniques have you used? What inspired you? How does it relate to your theme?

How have you created it? What do you like or dislike? Was it successful, if not, why? How could you improve it? What else could you try? Is there anything you would change? Why? How will you develop your work now?

Never throw away a sample! Samples are for

evaluate them so that we can improve!

experimentation, if you are unhappy with the outcome

Once you have completed a sample: Make a colour copy for the samples you are pleased with. Cut the sample in half, further further develop half the sample using different techniques. Sketch an idea to show how you would use this sample for your final piece. Evaluate your samples to help you refine your ideas and techniques.

Techniques to try: Batik **Batik Sgraffito Machine stitching** Embroidery Pleating Silk painting Screen Printing Applique Beading Couching Felting Weaving Pattern construction Patchwork Quilting Ruffles **Embellishment** CAD Fabric Dyeing **Fashion illustration**

GCSE Textiles A03

Record ideas, observations and insights relevant to intentions as work progress.

Developing Ideas:	How to annotate a
Once you have recorded your ideas develop them by: Varying aspects of your Design ideas for example shape, size features etc. Use observational sketches to develop repeat patterns. Take photographs and then annotate them. Throughout your annotation underline any key points you have made or keywords used.	design:What textile techniques have you used in your designs and why?How does the sample link to the samples you have made?Is your design inspired by any of your sources?How and why?What materials have you used and why?How does this design link to your theme?What developments would you make to your designs and why?

Key Points to remember:

- All designs should clearly relate to AO1 and AO2.
- All designs should show how your sources have inspired them, include this in your annotation. All designs should have at least three different textile techniques that you have sampled.

Media you
<u>can use to</u>
record ideas
Pencil
Pen
Collage
Chalk
Pencil crayons
Watercolour
Acrylic paint
Photographs
Charcoal

ink

How can I record my ideas?

- Recording ideas is really important to show the examiner your thought process and design development. Ways to record your ideas :
- **Design Ideas:** Draw out your design ideas, they should be clearly inspired by your samples and sources. Annotate these to explain parts of your designs.
- **Observational drawing:** Sketching objects that relate to your theme and help to inspire design ideas.
- Take Photographs: Take photographs of sources for inspiration or take • photos when you are making samples as evidence.
- Annotation: Annotate to explain your thought, this can be in the form of bullet points.

Annotation can be

written or typed, bullet points, key words or paragraphs.

GCSE Textiles A04

Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.

- How can I meet the assessment objective?
- Give a personal and meaningful response: Your response to a source should be personal to you. What your feelings and reactions are. It must be meaningful by relating to your source inspiration. Everything must link.
- Demonstrate understanding of visual language: Combine different textures, colours and techniques in an aesthetically pleasing way.
- Aesthetics: The way things look.

Ways of showing a personal response:

Create your own ideas.

- Develop your own ideas.
- Create samples inspired by a source. Create a developed sample inspired by a combination of sources. Produce a final Piece in fashion or
- interiors.

<u>**Creating a final piece:**</u> AO4 is shown throughout your sketchbook but a final piece secures marks.

Develop your design ideas. Select the design you would like the most to make. Sketch out your final design, planning the techniques you will use.

Plan your making process step by step.

Reflection on entire project:

What was your original theme and how you were inspired? How did you begin your research? How do your samples reflect your own ideas? What would you do differently? If you were to develop the theme further what would you do and why?

Key points: A personal response is:

Any response where it is your own work. Not just your final piece but all work in your sketchbook. Inspired by Artists but do not copy them as this is not personal ie not your own work. Recording the step by step process of creating any developed sample and final piece, you can do this with photographs, sketches

and annotation.