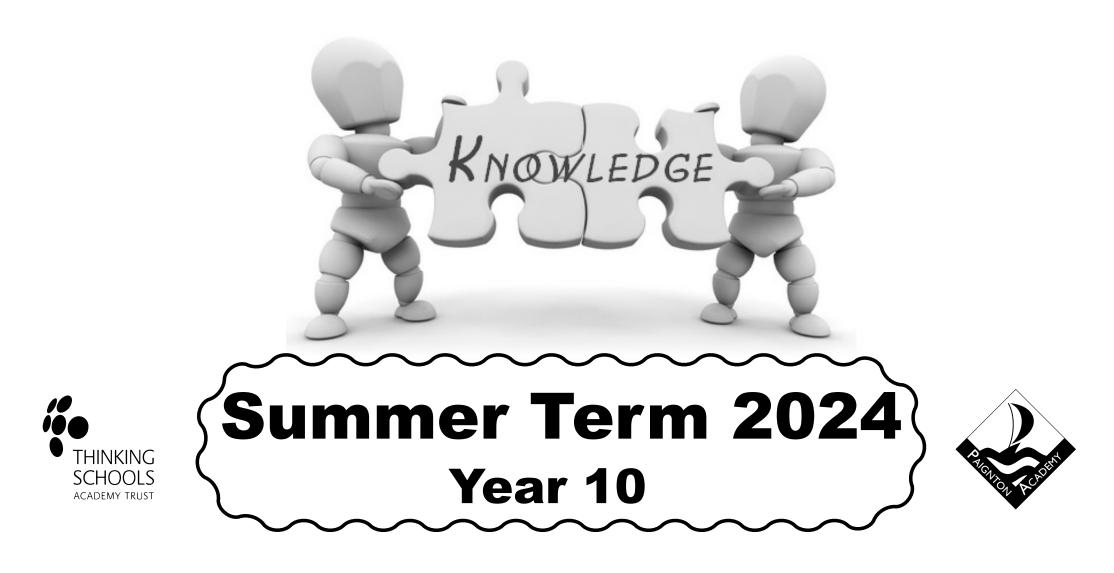
KNOWLEDGE ORGANISER



Name:

Form:

CONTENTS

How to use your Knowledge Organiser	1
Home Learning Plan	2
English	5
Maths	7
Science	9
Computer Science	12
French	16
Geography	20
History	22
Spanish	23
Art	27
Business Studies	28
Design Technology	30
Drama	34
Hospitality & Catering	36
Music	51
Sport	53
Where To Find Help	56



How to use your Knowledge Organiser for Home Learning

- Knowledge Banks contain core knowledge that you must know
- It will help you retrieve what you learn in lessons so that you remember it in the long term
- You will use your Knowledge Bank to aid your home learning

For homework:

- You will need to create a home learning timetable so you can organise which subject you do on which days
- You will be asked to use a specific section of your Knowledge Bank to aid home learning
- Your home learning will involve retrieval (prior learning) and flipped learning (research-based task for topics not yet learnt)
- The length of home learning will be different depending on your subject, this information is in a different document
- You must write the subject and date in your homework book if using
- You need to underline the subject and title as per lessons
- There will be rewards for excellent work and sanctions for work not complete
- your home learning will be set every Monday on ClassCharts
- Your homework will be set **every Monday** on Class Charts
- Completing your home learning is **YOUR** responsibility



SUBJECT	HOME LEARNING TIME	HOME LEARNING ACTIVITIES	WHERE TO COMPLETE e.g. home learning books, google classroom, subject home learning books, Seneca	HOW IT WILL BE MARKED
English	60 mins per week	Students will build on & extend topics currently studied by completing GCSE questions. This will be interspersed with GCSE essay questions enabling students to recall previous material studied.	Students may complete and submit on the Google classroom or if they prefer may complete by hand and submit to the class teacher	General feedback will be given.
Maths	60 mins per week	Retrieval: Pupils will recall work completed that week, plus other work in the year in consolidations tasks Flipped learning: Pupils will build on, extend work currently completed. This will feed into 'insights' given back to the teacher to feb into starter tasks Past Paper will be given close to PPEs and summer exams.	Sparx website On paper for past papers	On the website In class for past papers
Science	1 hour per week	SENECA set by class teacher Revision of year 9/10 topics from revision guide	On SENECA Completed in flash cards	Marked by SENECA and viewed for misconceptions by class teacher for Closing the gap
Geography	45 mins per week - plus exam/assessment revision	Seneca, revision activities, exam question practice, completion of case studies.	Seneca / Google classroom / revision materials produced.	Seneca and Google classroom is self marked. Exam question practice teacher/student marked.

History	30-60 Minutes per week	Seneca assignments for retrieval/consolidation. Research tasks, GCSE questions (4 Marks)	Senea, Google Classroom, Google Docs	Seneca is self marking, visual checks of Cassignments completed, teacher marked GCSE questions with feedback.
Art	Weekly - 1 Hour	Home learning will consist of practical tasks focusing on retrieval and flipped knowledge linked to the component of work. Revision strategies will be included in home learning to support assessments.	Art - on chromebooks or on paper to then be added to Art Portfolios.	Checked and marked in line with the component of work. Praise points awarded.
Food	30 mins per week	Year 10 - H&C Personal Review of dishes/retrieval/practical skills development Flipped learning - Research tasks for building knowledge for forthcoming lessons. Pupils to watch videos Year 11 - Food Tech Revision questions and research	Classcharts	Collected, Checked and marked by the class teacher. Praise Points awarded
French & Spanish	20 minutes per week	Vocab learning based on a particular section of their Knowledge Organiser Additional tasks such as Speaking question revision, listening/reading paper practise may also be requested as and when the teacher deems appropriate	Knowledge of learned vocab assessed in class	Corrected in class and PP added during the week

Drama	45 mins - 1 hour per week	essay questions, keywords, research, line learning, live performance analysis, character work, technical and design planning , devising logs, exam revision	Complete on Google classroom and Word Wall Work will be set on Class Charts	Teacher/self/peer assessment. Exam style questions marked.
Music	30 mins per week	Practice on instrument/composition/production skill sets.	On instruments/DAWs whilst completing rehearsal/production/compositi on logs.	Self-reflection of rehearsal effectiveness/composition development/production development.
Ethics	30 min P/w	Seneca, Making retrieval quizzes, Cornell notes .	Seneca and Google classroom	Teacher/ online
Social Sciences	45 minutes per week	Revision activities. Retrieval activities. Making online revision resources. Yr11 - practice exam questions on paper	Google Classroom. Yr11 - printed exam questions.	Self marked or checked via Google Classroom. Yr11 will have teacher marked practice exam questions.
Computer Science	30 minutes per week	Year 10 - pre-reading and questions for future topics. Retrieval of previously learnt topics. Year 11 - up until half term - pre-reading and questions for future topics. Retrieval of previously learnt topics. After half term - revision of previously learnt topics.	Seneca and Smart Revise.	Self marked and checked by the teacher. Praise points awarded for completed work.
Business and Enterprise	30 minutes a fortnight plus end of topic revision	ght Revision activities and exam practice Seneca		Seneca is self marking
Sports Studies	45 minutes	Revision activities and Retrieval quizzes set Google Classroom via use to challenge weekly exam content retention Google Forms		Self marked or checked via Google Classroom.
Construction				
Engineering				

ENG			KS4 Macbeth Kr	nowledge Org			
Act 1	Events 1. The witches meet on the heath 2. Macbeth and Banquo have fought and won a battle 3. The witches meet Macbeth and Banquo. Macbeth becomes Thane of Cawdor 4. Duncan meets with Macbeth and plans to meet him at the castle. 5. Lady Macbeth's letter. Lady Macbeth convinces Macbeth to kill King Duncan. 6. Duncan arrives at Macbeth's castle 7. Macbeth's soliloquy. Macbeth tells Lady Macbeth he will not murder Duncan. She convinces him to go ahead with the murder.		The Great Chain of Being King James I	Context God is at the top of the Great Chain of Beir Kings were chosen by 'divine right.' God ch Males were above females. People were expected to respect their posi in heaven. King of Scotland from 1567 - 1625 King James was fascinated by the superna King James's ancestor, Banquo, is made a	ose the king. on in the chain and, if they o ural and wrote a book entitle		
Act 2		iefly about the witches. Macbeth sees a dagger in front of him. can. Macbeth's guilt is apparent. Lady Macbeth feels no guilt. overed.		Witches and the supernatural	 King James had survived an assassination Christians believed witches to be the agent In 1604, it was a capital offence to be a with drowning. It was believed, witches could see into the 	of Satan. h. Association with a witch	
Act 3	 Macbeth questions Banquo. He plans his Lady Macbeth and Macbeth talk. Banquo is murdered. The banquet and Banquo's ghost. Hecate Lennox shares his suspicions about Macbeth 	a and Macbeth talk. rdered. and Banquo's ghost.		Adam and Eve	 A creation story taken from the Jewish and Adam and Eve are put into the garden of E A serpent tells Eve she will not be punished Eve eats the fruit and gives some to Adam. They are banished from the Garden of Ede 	len but told not to eat from t if she does so. She is bein	he Tree of Knowledge.
Act 4	 The witches share three prophecies as we Macbeth has Macduff's wife and children n Malcolm puts Macduff to the test. 	•	Banquo.	The role of women	17. Society was patriarchal.		
Act 5	 Lady Macbeth's sleepwalking. The rebels Macbeth is fearless. Great Birnam wood rises Lady Macbeth is dead 	 Malcolm prepares Macbeth kills youn Macduff kills Macb Malcolm is crowned 	g Siward eth.	War of the Roses The Gunpowder plot	 War of the Roses happened between the y Massive disorder of the War of the Roses y Afterwards, civil disorder was seen as the u A failed attempt to blow up England's King Attempt happened on November 5th, 1605. 	ith 105,000 casualties. Itimate disaster and an ungo	odly state.
	Characters			Features of f	orm	Themes	Motifs
1. Macbeth	courageous, confident, indecisive, submissive disloyal, tyrannical, deceiver, ambitious, remorseful, tormented, heartless, cunning, egocentric	e, 1. Tragedy		that deal with suffe very important or l	ering, loss and death. Concerned with the high status character. A unity in that it deals with	1. Ambition	1.Nature2.Sleep
						3. Supernatural	3. Light and dark
2. Lady Macbeth	Ambitious, commanding, conniving, heartless, malicious, manipulative, ruthless, sinister, guilty, paranoid		Instructions to an actor o	or director on how	to perform certain lines.	4. Order and chaos	4. Dreams
		3. Dialogue	A conversation between	two or more peop	le.	5. Good and evil	5. Blood
	4. Soliloquy When a character speak presence of other character			loud directly to an audience and without the	6. Revenge	6. Children	
3. King Duncan	Fair, respected, naïve, trusting, jovial, optimistic, meek, moral	5. Aside	A remark in a play that is intended to be heard by the audience but is supposed to be unheard by the other characters.			7. Masculinity and femininity	
4. Banquo	Brave, loyal, diplomatic, virtuous, friendly, astute, shrewd	6. Dramatic irony			8. Appearance and reality		

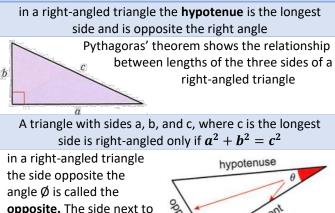
ENGLISH

5. The witches	Trouble-making, prophetic, evil, creepy, spooky, eerie		8. Anagnorisis	sis A moment in a play when a character makes a critical discovery.		es a critical discovery.
6. Macduff	righteous, justice-oriented, focused, deliberate,		9. Hamartia	A fatal flaw leading to the	-	
	heroic, responsive, intuitive		10. Rhyme	lines of poetry. The witc creating spells.	hes often speak in	s of the ending of words, especially at the end of a rhyme adding to the supernatural effect of
			11. Hubris	Excessive pride or self-c	he would be able	eth is overfulled with ambition and arrogance. He to kill the king without penalty.
Key Words	soliloquy	P r	Sceptical	Chaos	Malevolent	
		0				
		p h				
		e				
		c V				
Imperative	Ambition	R	Regicide	Surreal	Fate	
		u m				
		i				
		n a				
		t				
		i				
		o n				
Pall	Manipulative	Μ	Loyalty	Thane	Henchmen	
		e r				
		с				
		il e				
		s				
Usurp	Tragedy	s H	Superstitious	Valiant	Tyrant	
Usurp	падеиу	e	Superstitious	valiant	'yranc	
		i				
		n o				
		u				
		S				6

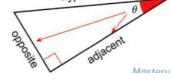
Maths Year 10

Spring - Foundation

<u>Right angled triangles</u>



the angle \emptyset is called the adjacent.



The **sine** of an angle \emptyset is the ratio of the opposite side to the hypotenuse. The sine of angle is written as $\sin \phi$ The **cosine** of an angle \emptyset is the ratio of the adjacent side to the hypotenuse. The cosine of angle is written as $\cos \phi$ The **tangent** of an angle \emptyset is the ratio of the opposite side to the adjacent side. The tangent of angle is written as tan Ø You can use sin^{-1} , cos^{-1} , tan^{-1} on your calculator to

find an angle when you know its sin, cos or tan

The **angle of elevation** is the angle measured upwards from the horizontal. The **angle of depression** is the angle measured downwards from the horizontal.

The sine, cosine		30°	45°	60°	90°
and tangent of some angles may	sin	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1
be written exactly	cos	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0
	tan	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	

Probability

The **probability** of an event happening is a number between 0 and 1. If an event is **certain**, the **probability** is 1 (P = 1). If an event is **impossible**, **probability** is 0, (P = 0) Events are **mutually exclusive** when they cannot happen at the same time. Events are exhaustive if they include all possible outcomes. The probabilities of an exhaustive set

of mutually exclusive events sum to 1 Equally likely outcomes have the same probability of happening. The probability that an equally likely event number of successful outcomes will happen is P =total number of possible outcomes If the probability of an event happening is P, the

probability of it not happening is 1 - P

A sample space diagram shows all the possible outcomes for one or more events. You can use it to find a theoretical probability.

Estimated probability is also called experimental **probability**. You can estimate the probability of an event from the results of an experiment or survey: $relative frequency = \frac{number of successful trials}{number of successful trials}$ total number of trials

A larger number of trials gives a more accurate estimate of probability.

Predicted number of outcomes = probability \times number of trials.

Two events are **independent** when the results of one do not affect the results of the other. When the outcome of one event changes the possible outcomes of the next event, the two events are not independent.

A set is a list of thinks that share certain characteristics

The elements of two (or more0 sets can be shown together in a Venn diagram. Curly brackets {} show a set of values.

 $A \cap B$ Means A intersection B. This is all the elements that are in A and in B

AUB Means A union B. This is all the elements that are in A or B. A' means the elements not in A

Multiplicative reasoning

The original amount is always 100%. If the amount is increased the new amount will be more than 100%. If the amount is **decreased** the new amount will be less than 100%.

You can calculate a **percentage change** using the formula. percentage change = $\frac{actual change}{original amount} \times 100$

Density is a compound measure. It is the mass of substance contained in a certain volume. It is usually measured in grams per cubic density = centimetre (g/cm³)

Pressure is a compound measure. It is the force applied over an area. It is usually measured in force pressure = newtons (N) per square metre (N/m^2) area

Banks and building societies pay compound interest. At the end of the first tear, interest is paid on the money in the account. The interest is added to the amount in the account. At the end of the second year, interest is paid on the original amount in the account and on the interest

earned in the first year, and so on....

 $v \propto x$ means 'v' is proportional to x. When $v \propto x$ then

y = kx, where k is the constant of proportionality

 $X \propto \frac{1}{2}$ means X and Y are in inverse proportion. This

means XY = k (constant)

You can make the numbers in a ratio as small as possible by simplifying. You simplify a ratio

by dividing the numbers in the ratio by the highest common factor (HCF)



Write the proportion as a fraction.

You can compare proportions using percentages

Convert the fraction to a percentage.

Maths Year 10

Spring - Higher

Similarity and Congruence

Congruent triangles have exactly the same size and shape. Their angles are the same and **corresponding sides** are the same length

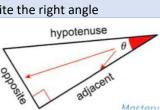
Two triangles are **congruent** when one of these conditions of congruence is true: **SSS**: all three sides are equal **SAS**: Two sides and the included angle are equal **AAS**: Two angles and a corresponding side are equal **RHS**: Right angle, hypotenuse and one other side are equal

Shapes are similar when one shape is an enlargement of the other. Corresponding angles are equal and corresponding sides are all in the same ratio
When a shape is enlarged by linear scale factor k, the area of the shape is enlarged by scale factor k²
When a shape is enlarged by linear scale factor k, the volume is enlarged by scale factor k³

More trigonometry

in a right-angled triangle the **hypotenue** is the longest side and is opposite the right angle

in a right-angled triangle the side opposite the angle \emptyset is called the **opposite.** The side next to the angle \emptyset is called the **adjacent**.



The **sine** of an angle \emptyset is the ratio of the opposite side to the hypotenuse. The sine of angle is written as sin \emptyset The **cosine** of an angle \emptyset is the ratio of the adjacent side to the hypotenuse. The cosine of angle is written as $\cos \emptyset$ The **tangent** of an angle \emptyset is the ratio of the opposite side to the adjacent side. The tangent of angle is written as $\tan \emptyset$ You can use $sin^{-1}, cos^{-1}, tan^{-1}$ on your calculator to

u can use *sin⁻¹, cos⁻¹, tan⁻¹* on your calculator to find an angle when you know its sin, cos or tan

The **angle of elevation** is the angle measured upwards from the horizontal. The **angle of depression** is the angle measured downwards from the horizontal.

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The sine, cosine		30°	45°	60°	90°	
and tangent of	sin	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1	
some angles may						
be written	cos	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0	
exactly		$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	///	
	tan		-	U.S. HA		
The sine rule can b				le to ca	alculate a	а
	miss	ing side	e:			
(a _	b _	С			
		sin b	sin c			
The cosine rule can						an
unknown sic	de: a^2 :	= b ² +	$c^2 - 2$	2 <i>bc</i> co	sA	
The sine graph repe 360 degrees in l directions		ry <u>y</u> 1	90	180	270 360	T
The tangent grap every 180 degree directior	es in b	oth	·1-	b ^o 180°	270° 760°.	x
The area if this t	riangle	e is $\frac{1}{2}a$	b sin	C c	b A	в
A place is a flat so the diagram.		. In		\sum	B	Y

the diagram. BC is perpendicular to the plane WXYZ. Triangle ABC is in a plane perpendicular to the plane WXYZ

The graph of y = -f(-x) is a reflection of the graph of y = f(x) in the x-axis and then the y-axis,

or vice versa. These two reflections are equivalent to a rotation of 180° about origin

Further Statistics

A **population** is the set of items that you are interested in. A **census** is a **survey** of the whole **population**. A **sample** is a smaller number of items from the **population**. A **sample** of at least 10% is considered good. In order to reduce **bias**, the **sample** must represent the whole **population**

A **population** may divide into groups such as age range or gender. These groups are called **strata (stratum**). In a **stratified sample**, the number of people taken from each group is **proportional** to the group size.

A cumulative frequency table shows how many data values are less than or equal to the upper class boundary of each data class. A cumulative frequency diagram has data values on the x-axis and cumulative frequency on

the y-axis

The **median** and **quartiles** can be estimated from the **cumulative frequency diagram**. For a set of n data values: the estimate from the **median** is the $\frac{n}{2}$ value. The estimate for the **lower quartile (LQ)** is the $\frac{n}{4}$ value The estimate for the **upper quartile (UP)** is the $\frac{n3}{4}$ value

The interquartile range (IQR) is UQ - LQ A box plot (sometimes called a box – and – whisker diagram, displays a data set to show the median and quartiles. Comparative box plots are box plots for two different sets of data drawn on the same scale.

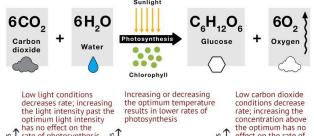
The interquartile range measures the spread of the middle 50% of the data. To describe a data set (or population) give a measure of average and a measure of spread. To compare data sets, compare a measure of average and a measure of of spread.

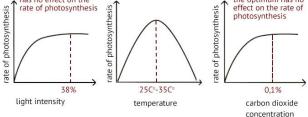
The median and interquartile range are not affected by extreme values of **outliers**. When there are extreme values, the median and interquartile range should be used rather than the mean and range.

Year 10 Science Knowledge Bank - Summer Term (Biology)

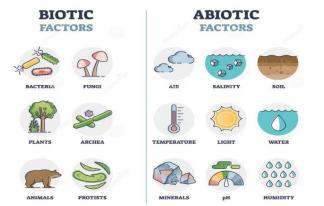
Photosynthesis and limiting factors

Photosynthesis is the conversion of light and carbon dioxide into glucose and energy.





Biotic and Abiotic Factors

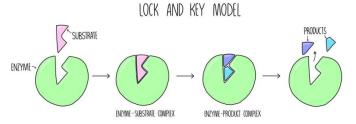


Diffusion, Osmosis and Active Transport

Process	Movement of	Conditions	Additional Requirements
Diffusion	Molecules or ions	High concentration to low concentration	Down a concentration gradient
Osmosis	Water molecules	High water potential to low water potential	Across a partially permeable membrane
Active Transport	Particles or substances	Low concentration to high (against the concentration gradient)	Needs Energy (1 ATP)

Enzymes and enzyme reactions

Enzymes play a vital role in the body, they are **biological catalysts** which speed up reactions however, they require set conditions to operate at their **optimum** level. Enzymes operate on a **lock and key model**, one enzyme for one reaction. Should an enzyme fall out of its set conditions, it is said to be **denatured** and will not work effectively.



Ecosystems

Ecosystems contain all the organisms that live within them, they are physical environments with a particular set of conditions (abiotic factors). The organisms within an ecosystem interact though predation and competition. An ecosystem can support itself without the influx of materials or other factors

Competition

All plants and algae in an ecosystem compete for light, space, water and minerals from the soil. Animals in an ecosystem compete for food, martes and their territory. Organisms which have more of these resources tend to be stronger and more likely to reproduce. Competition can be **interspecific** competition occurs between different species and **intraspecific** occurs between individuals of the same species.

Bioaccumulation occurs when toxins build up - or accumulate - in a food chain. The animals at the top of the food chain are affected most severel

Year 10 Science Knowledge Bank - Summer Term (Biology)

Quadrat Sampling



Quadrats are square metal frames, they are placed on the ground to look at plants or slow moving animals.





Using quadrats, the following sampling can be used:

1 – Number of an individual species such as the number of daisies.

2 – Species richness: the number of different plant or animal species seen

3 - Percentage cover: the percentage of the quadrat area that is covered by one species (eg grass).

Quadrats can be used randomly or by using a transect and quadrats placed at regular intervals, this enables you to see how species change over a distance.

Nervous system and Nerves and Synapses

The nervous systems consists of:

1 – The **Central Nervous**

System (CNS) this includes the brain and the spinal column.

2 – The Peripheral Nervous **System** – This includes nerve cells that carry information to or from the CNS.

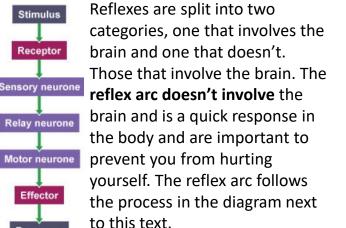
Reflexes and the reflex arc



Relay neurone

Effector

Response



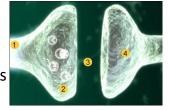
Synapses

Where two neurones meet there is a small gap, this is called a synapse.

1 – An electrical impulse travels along the first

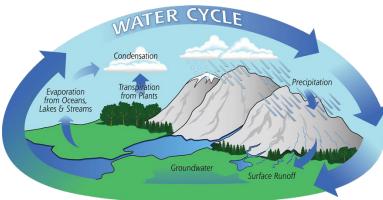
Axon.

2 – This causes the nerve ending of the neurone to release chemical messengers called neurotransmitters.



3 – These chemicals diffuse across the synapse and bind to a receptor on the second neurone. 4 – This stimulates the second neurone to transmit the electrical impulse.

Water Cycle





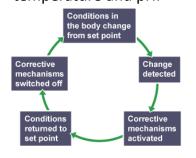
Year 10 Science Knowledge Bank - Summer Term (Biology)

Homeostasis

Homeostasis maintains optimal conditions for enzyme action in the body including the control of:

- 1 Blood glucose concentration
- 2 Body temperature
- 3 Water balance

This is important as enzymes only operate in a narrow range of conditions such as temperature and pH.



Negative feedback

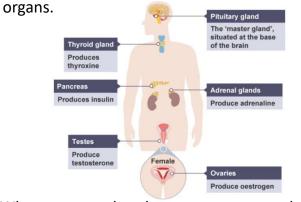
is when the body responds, for example when a hormone level rises or falls, the body control systems reduce it again.

Hormones in reproduction.

Hormone	Produced	Role
FSH (Follicle stimulating hormone)	Pituitary gland	Causes an egg to mature in an ovary.
Oestrogen	Ovaries	Stops FSH being produced (so that only one egg matures in a cycle)
LH (luteinising hormone)	Pituitary gland	Triggers ovulation
Progesterone	Ovaries	Maintains the lining of the uterus during the middle part of the menstrual cycle.

Hormones

Hormones are chemicals produced in glands in the body and it is carried around the body in the bloodstream where it targets specific

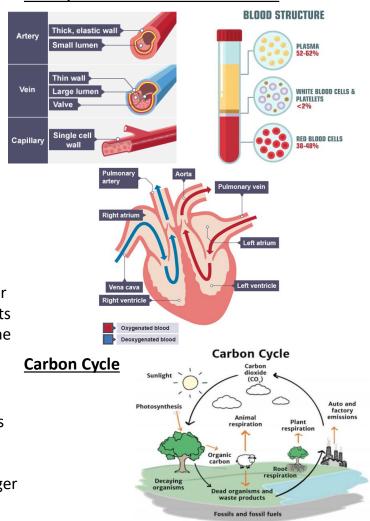


When compared to the nervous system, the endocrine system, it is important to remember that the endocrine system is slower and targets specific cells not muscles or secretions as in the nervous system.

<u>Diabetes</u>

This is a condition where blood glucose levels remain too high, there are two types, Type 1 is when the pancreas doesn't produce enough insulin and is treated by insulin injections. Type 2 is caused when the bodies cells no longer respond to insulin and is caused by diet.

Blood, Blood vessels and the heart



COMPUTER SCIENCE

Knowledge Organiser 4 : Networks and Network Topologies

1. Types of Networks

NL	
Network	A set of connected computers and other devices (e.g. printers, phones, HomeKit devices) for the purpose of sharing resources
LAN	Local Area Network. Covers a small geographical area (a home, a school, etc.) The infrastructure is often owned by the individual / organisation
WAN	Wide Area Network. Covers a large geographical area. WANs are made up of LANs joined together. The infrastructure is often owned by a Telecoms or other company rater than the individual
Advantages to using a LAN	 Resources (files, etc.) and devices (printers, etc.) can be easily shared across the network Computers can be configured with the same 'image' so you have the same programs and access to your data from any computer (like in school) You can control devices (e.g. HomeKit)
Disadvantages to using a LAN	Security. Malware can spread across a networkComplexity of setting up and maintaining

2. Factors affecting performance of a network

Latency	You can get bottlenecks in parts of your network, either because of a faulty switch, or due to the design of your network. Latency is the term used describe the time it takes data to travel from one designated point to another on the network
Bandwidth	The maximum amount of data transmitted over an internet or LAN connection in a given amount of time.
Transmission Media	WiFi generally has less bandwidth than wired connections. Wired connections (ethernet) can be different speeds (10Mbps, 100Mbps, Gigabit). Switches and routers also have maximum speeds
Concurrent Users	The more users there are on a network the more data is likely being transmitted. This means it can take longer as you have to wait your turn for your packets to travel across the network

6. Star and Mesh Topologies

Star Cheaper than mesh Network network. Less cabling. Easy to add devices BUT total reliance on central node. If it fails whole network fails



Mesh Full or partial. More Network cabling than star. Costs more to install. Harder to add a device. Harder to maintain BUT no Single Point of Failure

3. Network Types



The network relies on a central server and all the clients (devices) request services from the server such as print services, file services etc. Additional hardware is needed in this type of network: a server. All files can be stored and backed-up centrally on a server which means workers can access files from any computer on the network and the computers can also be updated centrally.

All arr pr

All computers have equal status and any computer can act as a client and a server–even at the same time. All computers can request and provide network services. For example, any computer can use a resource physically connected to a different computer. There is no need to buy a dedicated server

4. Required Hardware

NIC	The Network Interface Card is in each computer/devices and allows connection to other devices on the network. It can allow wired connections, wireless connections, or both
Transmission Media	What connects the computer/devices to each other. Copper cables, fibre optic cables, wireless signals
Switch	A device on the network that receives signals from a computer/device and transmits the signal to its intended recipient
Router	A device used to connect different networks together. For example a home LAN to the internet, or a fibre optic cable to a home WiFi network
WAP	A Wireless Access Point is a device that receives and transmits wireless signals on the network. Often connected to rest of the network by cables
5. The Inte	ernet
The Internet	The Internet is a global collection of interconnected networks
DNS	The Domain Name Server is a large directory allowing the Internet Service Provider (ISP) to look up the correct IP address for the desired website
Hosting	If you don't own your own servers and host your website yourself you can use a company to do it for you. They will monitor and maintain their servers they are renting you space on
The Cloud	Data can be stored 'in the cloud'. This means on servers (in server farms) run by big companies. The data can be accessed from anywhere
Web Servers and Clients	Servers provide services (e.g. Web server -> Web pages, File server -> file storage/retrieval). Clients request / use services from a server 12

Knowledge Organiser 5 : Protocols and Layers

1. Modes o	f Connection	2. Wirele	ss Encryption		
Wired	Ethernet is a set of standards (protocols) for how data is transmitted over a wired local area network. It is the most common set of protocols. Data is transmitted in frames	SSID	Wireless networks are identified by a unique "Service Set Identifier" (SSID). Can be invisible/visible and have a password. The SSID has to be used by all devices which want to connect to that network.		
Inside an Ethernet 'frame'	 Preamble of bits used to synchronise transmission Start frame delimiter to signify start of data part of the frame Source and destination MAC address The actual data Error checking information (cyclic redundancy check - CRC) 		Data is encrypted by scrambling the data into cipher text using a "master key" created from the SSID of the network and the password. Data is decrypted by the receiver using the same master key, so this key is not transmitted. Protocols used for wireless encryption include WEP, WPA, WPA2.		
Wi-Fi	Wi-Fi is a means of allowing computers, smartphones, or other devices to	3. IP and	MAC Addresses		
	connect to the Internet or communicate with one another wirelessly within a particular area. It has a range of about 100m, takes quite a lot of power (relatively), and has a high bandwidth (but less than a wired connection)	MAC address	Every device on a network has a Network Interface Card (NIC). Every NIC (in the world) has a unique Media Access Control (MAC) address. It is used to route frames on a LAN		
Wi-Fi advantages and	 Users can move around freely Easier to set up, and less expensive than wired Speeds are slower than wired networks 	IP address	IP Addressing is used to route frames on a WAN (called packets). Every device on the internet has a unique IP (Internet Protocol) address which is assigned to the device by a server. Two main standards (IPv4 and IPv6)		
disadvantages		Internal and External IP Addresses	A router will have a unique WAN facing IP address and a LAN facing IP address. Often all devices on a LAN (with unique internal IP addresses) will share a single external IP address		
Bluetooth	Bluetooth is a standard for the short-range wireless interconnection of	4. Standards			
	mobile phones, computers, and other electronic devices. It has a range of about 10m, takes very little power, and has a relatively low bandwidth	Definition	A set of specifications for hardware/software. Enables products to be compatible with each other and interact with each other		
5. Commor	Protocols	ASCII/Unico	de Character set standards		
TCP/IP	Transmission Control Protocol/Internet Protocol. Used to communicate	IEEE	Computer cables standards		
	over LANs and WANs	HTML	Standard for creating websites		
FTP / FTPS	Hypertext Transfer Protocol (secure). Used for webpage requests File Transfer Protocol (secure). Used for file transfers	PNG, GIF, M	23 Standards for documents, images, sounds, videos, etc.		
POP	Post Office Protocol. Used for receiving e-mail. Downloads e-mail from the	6. Layers			
	server to your device and deletes it from the server	Concept	The concept of layering is to divide the complex task of networking into		
IMAP	Internet Message Access Protocol. Used for receiving e-mail. Keeps e- mails on the server. This allows your device to stay in sync with the server		smaller, simpler tasks that work with each other.		
POP vs IMAP	POP you have your mail on one device since it is deleted from the server.	Responsibili	The hardware and/or software for each layer has a defined responsibility. Each layer provides a service to the layer above it		
	IMAP each device syncs to server so your mail can be on multiple devices	Advantages	Reduces the complexity of the problem into manageable sub-problems.		
SMTP	Simple Mail Transfer Protocol. Transfers outgoing emails from one server to another / from a email client to a sever		Devices can be manufactured to operates at a particular layer. Products from different vendors will work together.		

Knowledge Organiser 6 : Network Security

1. Forms of	Attack	2. Threats pos	sed to Networks		
Malware	Software written in order to infect computers and commit crimes e.g. fraud or identify theft. Malware exploits vulnerabilities in software	Malware	 Files are deleted, become corrupt or are encrypted. Computers crash, reboot spontaneously and slow down. Internet connections become slow. 		
Types of Malware	Malware is term that covers (among other things) viruses, trojans, worms, ransomware, spyware and adware		• Keyboard inputs are logged and sent to hackers.		
Phishing	Online fraud technique used by criminals. It is designed to get you to give away personal information such as usernames, passwords, bank details, credit card details Achieved by disguising as a trustworthy source in an electronic communication, e.g. an email or fake website.	Phishing	 Accessing a victim's account to withdraw money, or purchase merchandise and services. Open bank accounts, credit cards, cashing illegitimate cheques. Gain access to high value corporate data. Financial services can blacklist the company 		
Brute Force Attack	A trial and error method used to decode encrypted data (such as passwords). Uses every combination until it hits upon the correct one.	Brute Force Attack	Theft of data.Access to corporate systems.		
DOS Attack	Denial of Service attack. Floods a server with useless traffic causing the server to become overloaded and unavailable	(D)DOS Attack	 Loss of access to a service for customers Lost revenue 		
DDOS Attack	Distributed Denial of Service Attack. Using multiple computers (zombies) in a Botnet to undertake a DOS attack		Lower productivityDamage to reputation		
Data Interception and Theft	Stealing information from an unknowing victim's computer in order to get confidential information, or to compromise their privacy. E.g. to sniff	Data Interception and Theft	 Usernames and passwords compromised Disclosure / theft of corporate data 		
SQL Injection	usernames and passwords A technique used to view or change data in a database by inserting additional code into a text input box, creating a different SQL command	SQL Injection	 Contents of databases can be output, revealing private data. Data in the database can be amended or deleted. New rogue records can be added to the database. 		
Zero Day Attack	An attack using an unknown and undocumented vulnerability in software code (unknown to the code owner)	People	Many system vulnerabilities are caused by people being careless:Not installing operating system updates.		
3. Identifyiı	ng and Preventing Vulnerabilities		Not keeping anti-malware up to date.Not locking doors to computer rooms.		
Malware	 Security software (Spam filter, Anti-virus, Anti-spyware, Anti-spam) Enabling OS and security software updates. Staff training Backup files regularly onto removable media. 		 Not logging off or locking their computer. Leaving printouts on desks. Writing passwords down on sticky notes attached to computers. Sharing passwords. Losing memory sticks / laptops. 		
Phishing	 Strong security software. Staff training: awareness of spotting fake emails and websites. Staff training: not disclosing personal or corporate information. Staff training: disabling browser pop-ups. 		Not applying security to wireless networks.Not encrypting data.		
Brute Force Attack	Network lockout policy, Using progressive delays.Staff training	Data Interception and Theft	Encryption and using virtual networksStaff training and computer use policies		
(D)DOS Attack	Strong firewall and packet filteringProperly configuring servers and auditing and monitoring systems	SQL Injection	Validation on text boxesDatabase permissions14		

Knowledge Organiser 7 : Systems Software

1. Definitio	ns	4. Features Of	ten Provided by an Operating System			
Systems Software	Systems Software is the software used to control the hardware of the computer. It is contrasted to application software which is used to enable the user to perform tasks and create content and products	Multitasking	Running multiple applications at the same time by giving each application a small time-slice of processor time. This allows more that one program to be held in memory at a time, and data shared			
Operating System	An operating system is a piece of system software that communicates with the hardware of the computer and allows other programs to run. It is		between them such as copy and paste. It also enables you to listen to music on your PC at the same time as word processing for example			
	comprised of system software, or the fundamental files your computer needs to boot up and function	Memory Management	When programs are loaded, the operating system decides where they are held in memory. Over time the memory becomes fragmented as			
Peripherals	Peripherals are controlled by software called device drivers. Standard drivers (mouse and keyboard) are included in the operating system, however more specialist peripherals may need drivers programmed by the manufacturer which convert signals into machine code and are		programs are loaded and closed because they use different amounts of memory. The operating system must keep track of different program fragments. When the memory is full, the operating system uses virtual memory			
	installed separately	Device Drivers	Translates operating system instructions into commands that the hardware will understand. Each peripheral will need a device driver			
Utility Software	Utilities are programs that are installed to perform a specific function, usually to improve the efficiency or security of a computer system		and many common ones are built into the Operating System			
2. The Fund	2. The Function of Operating Systems		Providing for different users to log into a computer. The operating system will retain settings for each user, such as icons, desktop			
What does an Operating system do?	An operating system manages all of the software and hardware on the computer. Most of the time, there are several different computer programs running at the same time, and they all need to access your		backgrounds etc. Each user may have difference access rights to files and programs. A client server network may impose a fixed or roaming profile for a user, and manage login requests to the network.			
	computer's central processing unit (CPU), memory, and storage. The OS co-ordinates this activity	File Management	system which application to load the file into. Files can also be pla			
Interaction	A user interacts with the computer by means of an interface provided by the operating system	in folders for ease of organising 5. Examples of Utility Software				
3. Types of	Interface	Encryption	Encryption utilities use an algorithm to scramble plain text into cipher text. It can be decrypted and read again with a Key			
GUI	A Graphical User Interface provides windows, icons, menus, (mouse or other) pointer Sometimes calls WIMP. It is visual, interactive, and intuitive. Optimised for mouse/touch input	Defragmentation	Defragmentation utilities reorganise files on a hard disk, putting fragments of files back together, and it collects together free space.			
CLI	A Command Line Interface is text based. It uses less resources than a GUI. It is more efficient but harder to learn. Often repetitive processes can be automated with scripts		This reduces the movement of a read/write head across the surface of the disk, which speeds up file access. Solid state drives should not be defragmented (it is unnecessary as they have no moving parts. It also reduces their lifespan)			
Menu	A Menu Interface presents successive menus to the user with options to choose at each stage. Often used with buttons on a keypad. (Think calculator when you press the 'MENU' button)	Compression	Compression utilities reduce the size of a file so that it takes up less space, and is quicker to download/upload.Compressed files must be extracted before they can be read. Compression is lossy or lossless			
Natural Language	A Natural Language Interface responds to questions in a spoken language. They are not always reliable but are improving all the time. (Think Siri or Alexa)	Backup	Backup utilities take a copy of the data and place it elsewhere (disks, tapes, cloud, etc.). Backups can be either full (backup everything) or incremental (back up changes since the last backup).			



FRENCH - KNOWLEDGE ORGANISER YEAR 10 S

	a Decemena - Heli	doulo				La météo		Weather Forecast
	s Vacances - Holic	UdyS				le temps		the weather; time
chambre d'hôte	guest room, B&B	louer	to r	ent		il y a des nuages	5	it's cloudy
uberge de jeunesse	youth hostel	loger	to s	tay		du brouillard		foggy
gîte	holiday cottage	compter (sur)	to c	count (upon)		des orages		stormy
oropriétaire	the owner	le séjour	the	stay, visit		du soleil		sunny
colonie de vacances	holiday camp	le porte-moni	naie pur	se, wallet		du vent		windy
e station balnéaire	a seaside resort	aimer mieux	to p	orefer		il neige		it's snowing
sac de couchage	a sleeping bag				J	il pleut		it's raining
						il fait beau		it's nice / sunny wea
		hie	er			au printemps		in springtime
				aujour	d'hui	au bord de la me	er	at the seaside
				aujour	d'hui	au bord de la me à la campagne		in the countryside
S DE FRAN				aujour jeu				
DE FRAN	Le temps Th	he Time				à la campagne	it	in the countryside
DE FRANCE	Le temps Th yesterday	he Time plus tard	later			à la campagne il y a trop de brui	it .	in the countryside it's too noisy
			later then			à la campagne il y a trop de brui la pêche	it	in the countryside it's too noisy fishing
hier	yesterday	plus tard				à la campagne il y a trop de brui la pêche un rendez-vous	it	in the countryside it's too noisy fishing a meet-up
hier aujourd'hui	yesterday today	plus tard puis	then			à la campagne il y a trop de brui la pêche un rendez-vous se reposer	it	in the countryside it's too noisy fishing a meet-up to relax
hier aujourd'hui demain	yesterday today tomorrow	plus tard puis puisque	then since	jeu		à la campagne il y a trop de brui la pêche un rendez-vous se reposer rester au lit	it	in the countryside it's too noisy fishing a meet-up to relax to stay in bed
hier aujourd'hui demain le lendemain	yesterday today tomorrow the next day for (since) one day	plus tard puis puisque une fois	then since once	rning	ıdi	à la campagne il y a trop de brui la pêche un rendez-vous se reposer rester au lit	it	in the countryside it's too noisy fishing a meet-up to relax to stay in bed as rich
hier aujourd'hui demain le lendemain depuis un jour	yesterday today tomorrow the next day for (since) one day	plus tard puis puisque une fois le matin	then since once (in) the mo	rning	Idi si j'étais j'achète	à la campagne il y a trop de brui la pêche un rendez-vous se reposer rester au lit	it - if 1 wa - 1 wou	in the countryside it's too noisy fishing a meet-up to relax to stay in bed as rich Id buy
hier aujourd'hui demain le lendemain depuis un jour une quinzaine de jour	yesterday today tomorrow the next day for (since) one day s a fortnight	plus tard puis puisque une fois le matin le soir	then since once (in) the mo (in) the eve	rning	Idi si j'étai: j'achète je préfé	à la campagne il y a trop de brui la pêche un rendez-vous se reposer rester au lit s riche erais	it - if 1 wa - 1 wou - 1 wou	in the countryside it's too noisy fishing a meet-up to relax to stay in bed as rich Id buy Id prefer to
hier aujourd'hui demain le lendemain depuis un jour une quinzaine de jour d'abord	yesterday today tomorrow the next day for (since) one day s a fortnight firstly	plus tard puis puisque une fois le matin le soir l'après-midi	then since once (in) the mo (in) the eve (in) the after	rning	Idi si j'étai: j'achète je préfé après r	à la campagne il y a trop de brui la pêche un rendez-vous se reposer rester au lit s riche erais érerais + infinitive	it - if 1 wa - 1 wou - 1 wou - 1 wou - after	in the countryside it's too noisy fishing a meet-up to relax to stay in bed as rich Id buy

Les activités	Activities		$\sim \sim$	$\sim\sim$	~~~~	$\sim\sim\sim$
lire un roman	to read a novel			Les pays	Countries	
faire	to do (or to make)	je suis d	allé(e) I went	au Pays-Bas	in/to the Netherland	
un stage de surf	a surfing course	nous se	ommes allé(e)s we we	ent	aux Pays de Gall	es in/to Wales
faire de l'escalade	to do (go) climbing	j'irai	l will g	0	en Suisse	in/to Switzerland
la planche à voile	sailing	nous a	llons visiter we ar	e going to visit	en Écosse	in/to Scotland
du VTT	Mountain Biking	en Alle	emagne in/to	Germany	à l'étranger	abroad
faire des achats	to do the shopping	en Ang	gleterre in/to E	England		
se bronzer	to get a tan, sunbathe	\sim	$\sim\sim$	$\sim\sim$	\sim	\sim
nager	to swim		Les bâtiments	Buildings		
la piste cyclable	cycle path/lane		l'église	church	minable	pathetic
ll faut	you must		la bibliothèque	library	obliger	to force
trouver	to find		le château	castle	sauf	except
ll vaut mieux + inf	it would be better to		la gare	train station	déçu(e)	disappointed
plein de	lots of		la gare routière	bus station	complet	full
en plein air	in the open air		l'hôtel de ville	Town Hall	essayer	to try
découvrir	to discover		la mairie	Town Hall	sale	dirty
voyager	to travel		le magasin	shop	propre	clean
se déplacer	to get around	0 0	l'arrêt d'autobus	bus stop	en panne	out of order
à pied	on foot		là-bas	over there		
à vélo	by bike		La nourritu	re Food	4	
en voiture	by car	un repas	a meal	goûter	to taste	
en bateau	by boat	j'ai soif	I'm thirsty	plutôt	rather	
en avion	by plane	j'ai faim	l'm hungry	salé	salty (sale = di	rty)
la station de ski	ski resort	le plat du jo	ur meal/dish of the	aday		

les opinions	opinions	
à mon avis	in my opinion	
selon moi	according to me	
je pense que	I think that	(
je crois que	I believe that	
j'aime	I like	
je n'aime pas	I don't like	
j'adore	I love	
je déteste	Ihate	
je préférerais	I would prefer	
j'aimerais	I would like	(
je voudrais	I would like	
si j'avais le choix	if I had the choice	
si j'étais riche	if I was rich	
j'ai toujours voulu	I've always wanted	(

KEY PHRASES & COMPLEX STRUCTURES

j'espère + infinitive	I hope to	je me suis couché(e) à
j'ai l'intention de + infinitive	l intend to	je me suis levé(e) à
avant de + infinitive	beforeing	cependant
j'ai décidé de + infinitive	I decided to	d'habitude
Je viens de + infinitive	l have just	à l'avenir
bien que + subjunctive	although	aussi
j'aurai seize ans en janvier	I will be 16 in January	mais
je suis né(e) à	I was born in	normalement
après avoir mangé	after having eaten	Pour + infinitive –
apres avoir mange	alter Having eateri	Pour garder la forme
après être allé(e)	after having been	puis
j'ai toujours voulu	I have always wanted	si
je trouve ça	I find that	je voudrais + infinitive
je pense que	I think that	je veux + infinitive
à mon avis	in my opinion	je préférerais + infinitive

Qu'est-ce qu'il y a sur la photo?	What is in the photo?		
sur la photo, il y a	in the photo, there is		
je peux voir	I can see		
(deux) personnes	(2) people		
un homme	a man		
un garçon	a boy		
une femme	a lady / a wife		
une fille	a girl / daughter		
il a les cheveux bruns	he has brown hair		
elle a les yeux verts 6	she has green eyes		
il porte un t-shirt rouge	he's wearing a red t-shirt		
elle porte un jean bleu	she's wearing blue jeans		
ils portent des vêtements	they are wearing clothes		
ils s'amusent	they are having fun		
il fait beau	it's sunny		
il pleut	it's raining		



Future Plans Phrases						
il est important	it's important					
d'être travailleur/travailleuse	to be hard-working (m/f)					
de passer mes examens	to pass my exams					
de trouver un boulot	to find a job					
de gagner un bon salaire	to earn a good salary					
d'avoir un avenir plein d'opportunités	to have a future full of opportunities					





I went to bed at

I got up at however usually in the fut<u>ure</u>

also but

normally

to keep fit

I would like

I would prefer to...

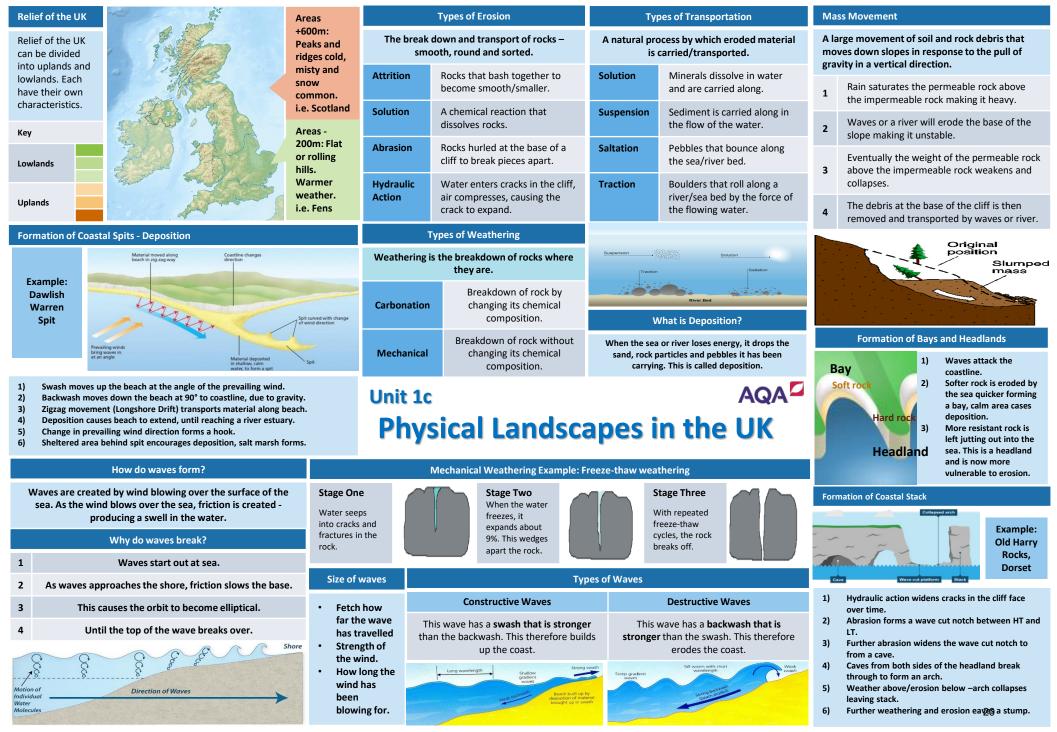
then

I want

KEY FREQUENCY WORDS/TIME EXPRESSIONS & VERBS (PAST, PRESENT & FUTURE)

Р	RESENT	P	AST		FUTURE	
aujourd'hui	today	hier	yesterday	demain	tomorrow	
uelquefois	sometimes	le weekend dernier	last weekend	le lendemain	the day after tomorro	w 🖉
l'habitude	usually	la semaine dernière	e last week	le weekend prochai	n next weekend	and the second sec
normalement	normally	l'été dernier	last summer	la semaine prochair	ne next week	
énéralement	generally	l'année dernière	last year	l'été prochain	next summer	
ouvent	often		<	l'année prochaine	next year	6
oujours	always	Pavers	\mathbf{i}			
ous les jours	every day	100				
ous les soirs	every evening				Today	
ous les weekends	every weekend		Test	erday	Today	
ine fois par semaine	once a week					
leux fois par semaine	twice a week	No La Ca	No.		Thursday	
ine fois par mois	once a month	222)	
chaque année	every year					
e lundi	on Mondays/every Monday	INF		PAST	PRESENT	FUTURE
le mardi	on Tuesdays/every Tuesday	mange	i'ai ma		e mange nous mangeons	je vais manger nous allons mang
5		visiter	– to visit j'ai visi nous a		e visite nous visitons	je vais visiter nous allons visite
		regard watch	er – to j'ai reg nous a		e regarde nous regardons	je vais regarder nous allons regar
	Go to:	aller –	to go je suis nous se	· · ·	e vais nous allons	je vais aller nous allons aller
	r teacher will issue you	boire -	- to drink j'ai bu nous a		e bois nous buvons	je vais boire nous allons boire
	Linguascope	jouer -	- to play J'ai jou Nous a		e joue 1ous jouons	je vais jouer nous allons jouer
		faire –	to do j'ai fait nous a		e fais nous faisons	je vais faire nous allons faire

GEOGRAPHY



Coastal Defe	nces		Water Cycle Key	Terms				Lower Cour	se of a River
Hard Engineeri	ng Defences		Precipitation	Moisture falling	from clouds as rain, sno	ow or hail.	Nea	r the river's mouth, the river widens further and	becomes flatter. Material transported is deposited.
Groynes	Wood barriers	✓ Beach still accessible.	Interception	Vegetation preve	ent water reaching the	ground.		Formation of Floodplains and levees	Natural levees
	prevent longshore drift,	X No deposition further down coast = erodes			np				
	so the beach can build up.	faster.	Infiltration	Water absorbed	into the soil from the §	ground.		the valley floor. Closer to the river's banks, the vier materials build up to form natural levees.	
Sea Walls	Concrete walls	✓ Long life span	Transpiration	Water lost throu	gh leaves of plants.		1	Nutrient rich soil makes it ideal for farming.	River
	break up the energy of the	 Protects from flooding Curved shape 		Physical and Human	Causes of Flooding.		1	Flat land for building houses.	
	wave . Has a lip to stop waves going over.	encourages erosion of beach deposits.	Physical: Prolong & Long periods of rain become saturated I	causes soil to	Physical: Geology Impermeable rocks of runoff to increase riv			r Management Schemes Engineering	Hard Engineering
Gabions or Rip Rap	Cages of rocks/boulders absorb the waves energy, protecting the cliff behind.	 Cheap Local material can be used to look less strange. Will need replacing. 	Physical: Relief Steep-sided valleys to flow quickly into greater discharge. Upper Course of a F	channels water rivers causing	Human: Land Use Tarmac and concrete are		reduc Demo warn Mana	restation – plant trees to soak up rainwater, ces flood risk. ountable Flood Barriers put in place when ing raised. aged Flooding – naturally let areas flood, ect settlements.	Straightening Channel – increases velocity to remove flood water. Artificial Levees – heightens river so flood water is contained. Deepening or widening river to increase capacity for a flood.
Soft Engineerin	ng Defences				eep gradient from the	hill/mountains.			
Beach	Beaches built	✓ Cheap		r a lot of energy, so	it will erode the riverb		Hydı	rographs and River Discharge	
Nourishment	up with sand, so waves have to travel	 Beach for tourists. Storms = need 	Formation of a W	form narrow valleys. Formation of a Waterfall		Rive	er discharge is the volume of water that flo certain point in a river changes	ows in a river. Hydrographs who discharge at a over time in relation to rainfall	
	further before eroding cliffs.	replacing. X Offshore dredging damages seabed.	Harder rock	1) River flow	s over alternative type	es of rocks.		eak discharge is the discharge in a od of time.	Runoff Pesk
Managed	Low value	Reduce flood risk	Softer rock	2) River eroo	les soft rock faster crea	ating a step.			(cumees)
Retreat	areas of the coast are left to flood & erode.	 Creates wildlife habitats. Compensation for land. 		3) Further hy plunge pool	draulic action and abi beneath.	rasion form a		ag time is the delay between peak fall and peak discharge.	- ω - ω θημη
Case Study: Day			4) Hard rock above is undercut leaving cap rock which collapses providing more material for erosion. 5) Waterfall retreats leaving steep sided gorge.		 3. Rising limb is the increase in river discharge. 4. Falling limb is the decrease in river discharge to normal level. 				
Location and Ba South Devon, in River Exe.	-	Exmouth – across mouth of							
KIVEI EXE.		and the second	Middle Course of	Middle Course of a River		Case Study: The River Tees			
-		<pre>i forming waves at an angle = t forming a spit.</pre>	•	Here the gradient get gentler, so the water has less energy and moves n slowly. The river will begin to erode laterally making the river wider				Location and Background Located in the North of England and flows 13	7km from the Pennines to the North Sea at Red Car.
Erosion (abrasion and hydraulic action) – creating the cracks, caves, arch and stack at Langstone Rock.			Formation of Ox-boy	Formation of Ox-bow Lakes			Geomorphic Processes Upper – Features include V-Shaped valley, rapids and		olds and
Erosion – wave cut platform at the foot of Langstone Rock.		Ste	Step 1 Step 2				waterfalls. Highforce Waterfall drops 21m and is made from harder Whinstone and softer limestone rocks.		
	eposition – sand /shingle beach.		forr	Erosion of outer bank forms river cliff. Deposition inner bank		ion	n Gradually a gorge has been formed. Middle – Features include meanders and ox-bow lakes. The		
Management	g : beach nourishment	to replenish the spit in 2018.	for	ns slip off slope.		gets smaller.		Lower – Greater lateral erosion creates features such as floodplains & levees. Mudflats at the river's estuary.	
Hard engineerin	ng:		Ste	p 3		Step 4		Management	
Revetment	t – to protect the car p				Evaporation and deposition cuts of	-Towns such as Yarm and Middleborough are economically and socially important due to houses			

main channel leaving

an oxbow lake.

fastest route,

redirecting flow

1

-Dams and reservoirs in the upper course, controls river's flow during high & low rainfall.

- Better flood warning systems, more flood zoning and river dredging reduces floading.

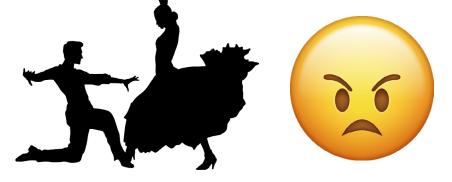
- Riprap used along with sea wall to protect base of sea wall •
- Geotex tubing placed at the neck to reinforce it to prevent flooding along the river Exe in high storms.

HISTORY KNOWLEDGE ORGANISER – AMERICAN WEST

1. Early America			2. Indian Territory.	
Independence Liberty Colony Constitution Congress The five civilised tribes: • Cherokee • Choctaw • Creek • Chickasaw • Seminole	Plantations Reserve Civilised Native	Declaration of Independence1776Original 13 States1776George Washington (first President)1789Lewis & Clark (Great American Desert)1803Louisiana Purchase1819Missouri Compromise signed1820Cotton Boom1830Indian Removal Act1834Seminole War1835The Creek War1836The Trail of Tears1838	Federal/StateDog SoldiersFrontierScalpingReservationCoup StickIndian TerritoryBrotherhoodsSavageGreat SpiritPredatorsPreySocial StructureMedicine ManNomadicSpirit WorldTravois/TipiSun DanceCollaborationSacred LandResourcefulBuffaloReverenceFerence	US win the Mexican-American War 1848 Indian Appropriations Act 1851 The Fort Laramie Treaty 1851 'For as long as the stars shall shine and the rivers flow.' Andrew Jackson (1834)
3. Early Settlement			4. Civil War	
Expansion Natural Frontiers Extreme weather Early Pioneers Independence Mormons Joseph Smith Brigham Young Moroni Religious Persecution Dannites Deseret	Mountain men Jim Bridger Bridger pass Bridger trail Fort Bridger Donner party Wagon train Mining towns Law of the Gun Claim-jumping Agricultural Climate	Lewis and Clark Expeditions1803-6Bank collapse1837Oregon Trail1843Manifest Destiny (John O'Sullivan)1845Californian Gold Rush1849Fort Laramie Treaty1851Horace Greeley 'Go West young man'1859	Democrats Assassination Republicans Immigrants Secession Deserters Radical Ex-Slaves Reconstruction Ex-Soldiers Homesteaders Filing a claim 13th Amendment Immigration Abolitionists Union/North/Blues/Free States Confederacy/South/Greys/Slave States	The Missouri Compromise1820The Kansas-Nebraska Act ended M C1854Abraham Lincoln becomes President1860Confederate States refused secession1861American Civil War1861-5Emancipation Proclamation1862The 'Black Codes' (KKK)1866Reconstruction Acts1867The Reconstruction years1865-77Free States– Banned SlaverySlave States– Allowed Slavery
5. Homesteaders and	Farming		6. Conflict & Conquest	
Pacific Railroad Act, 1862 Transcontinental Open Range Rustling Long Drives Cattle Trails Meat Packing Quarantine Vigilante Posse Lynching Marshal	Technology Timber Sod Houses Crops Dry farming Mennonites Turkey red wheat	The US Civil War ends, herds multiplied1865Goodnight & Loving Trail1866Abilene (Joseph McCoy)1867'Beef bonanza'1870sOpen Range (John Iliff)1870Harsh winter (-55%C) ends Open Range1886-7Homestead Act ((160acres for \$10+\$30)1862Timber Culture Act (another 160 acres)1873Wind Pump (Daniel Halladay)1874Joseph Glidden (barbed wire)1874Sulky Plough (steel, spare parts)1875Desert Land Act (another 640 acres)1877	RustlersReason for Conflict:Roundup* Culture of the Plains IndiansForeman* Government policyTreaty* Destruction of the buffaloMassacreExtinctionBozeman TrailSacredTotal WarClash of CulturesAssimilateAmericanise	Lincoln County War1878Johnson County War1892Little Crow's War (let them eat grass)1862Sand Creek Massacre (Col Chivington)1864Red Cloud's War1866-82nd Treaty of Fort Laramie1868Gold found in the Black Hills of Dakota1874The Battle of the Little Bighorn1876The Exoduster Movement1879The Dawes Act1887Wounded Knee Massacre1890Oklahoma Land Rush22893

Year 10 Spanish - Cycle 3

Si ganara la lotería	- If I won the lottery
si fuera millonario/a	if I were a millionaire
si fuera posible	if it were possible
si ganara la lotería	if I were to win the lottery
cambiaría de peinado	I would change my hairstyle
compraría	I would buy
un montón de ropa marca	lots of designer clothes
unas gafas de sol de marca	designer sunglasses
iría a la peluquería	I would go to the hairdresser's
tendría un asistente personal	I would have a personal assistant
tendría un teléfono móvil de lujo	I would have an expensive mobile phone
viajaría por todo el mundo	I would travel around the world
el coche cuatro por cuatro	4x4 vehicle
el equipamiento propio/a	own equipment
la ropa de marca	designer clothes
salir de fiesta	to go out partying



Lo que hago por las mañanas	– What I do in the mornings	Lo
La rutina	routine	no
desayunar	to have breakfast	acc
despertar(se	to wake up	car
duchar(se)	to have a shower	cer
ir al instituto	to go to school	had
lavar(se) los dientes	to brush your teeth	me
levantar(se)	to get up	pas
peinar(se)	to brush/comb your hair	rela
vestir(se)	to get dressed	vol
a menudo	often	cua
a veces	sometimes	cua si n
antes	first,before	site
después	after, afterwards	sier
durar	to last	al f
inmediatamente	immediately	apr
luego	then, later	elp
mientras	while	ten
nunca	never	(no
raras veces	rarely	
siempre	always	
deprisa	fast, quickly	P
tener prisa	to be in a hurry	





	¡Te he dic	ho que no!			l've tol	d you, no!	
aguantar(se)	to stand/bear	llevarse bien con	to get on well with	estar en contra	to be against	a todas horas	all the time
criticar	to criticise	llevarse mal con	to get on badly with	estricto/a	strict	al conflicto	conflict
discutir	to argue, quarrel	pelearse	to fight/argue	incompatible	incompatible	el lío	mess
enfadarse	to get angry	respetar	to respect	injusto/a	unfair	El permiso	permission
gritar	to shout	volver a casa	to return home	justo/a	fair	La regla	rule
llegar a casa	to arrive home	estar de acuerdo	to be in agreement	razonable	reasonable		

Year 10 Spanish - Cycle 3

<i></i> .				
ambicioso/a	ambitious	últimamente	recently, late	ly
el canal o	canal	vender	to sell	
cansar t	to tire	comenzar/empezar a	to start doing	
igual s	same, equal	Dejar de	to stop doing	
el pensamiento 1	thought	depender de	to depend o	n
el puente l	bridge	hablar con	to talk to	
la quinceañera	15th birthday party	hablar sobre	to talk about	
recoger 1	to collect/pick	pensar en	to think abo	ut 🗸 🗸
el sentimiento f	feeling	soñar con	to dream ab	out
tardar 1	to take (time)/be late	e volver a	to do sometl	ning
)	
En	busca de un mu	Indo mejor – In searc) h of a bette	r world
	busca de un mu to care (for)	Indo mejor – In searc		r world buy local products
cuidar (de)				r
cuidar (de) proteger	to care (for) to protect you can/you	comprar prod ducharse	luccos locales	buy local products
cuidar (de) proteger se puede/se debe	to care (for) to protect	comprar prod ducharse	luccos locales	buy local products take a shower
cuidar (de) proteger se puede/se debe reciclar	to care (for) to protect you can/you	comprar prod ducharse no malgastar	luccos locales agua	buy local products take a shower not waste water
cuidar (de) proteger se puede/se debe reciclar cartón	to care (for) to protect you can/you recycle	comprar prod ducharse no malgastar ser miembro	luccos locales agua	buy local products take a shower not waste water be a member
cuidar (de) proteger se puede/se debe reciclar cartón latas	to care (for) to protect you can/you recycle cardboard	comprar prod ducharse no malgastar ser miembro de un grupo d	luccos locales agua de presión	buy local products take a shower not waste water be a member of a pressure group
cuidar (de) proteger ce puede/se debe reciclar cartón latas papel	to care (for) to protect you can/you recycle cardboard cans paper úblico use public tr	comprar prod ducharse no malgastar ser miembro de un grupo d a diario el compromis la concentrac	luccos locales agua de presión o	buy local products take a shower not waste water be a member of a pressure group daily
cuidar (de) proteger se puede/se debe reciclar cartón latas papel usar el transporte pu r a pie	to care (for) to protect you can/you recycle cardboard cans paper úblico use public tr go on foot	comprar prod ducharse no malgastar ser miembro de un grupo o a diario el compromis ransport la concentrac la conciencia	agua de presión o ión	buy local products take a shower not waste water be a member of a pressure group daily obligation/commitm gathering/rally awareness
cuidar (de) proteger se puede/se debe reciclar cartón latas papel usar el transporte pu ir a pie ir en bicicleta	to care (for) to protect you can/you recycle cardboard cans paper Jblico use public tr go on foot go by bike	comprar prod ducharse no malgastar ser miembro de un grupo d a diario el compromis ansport la conciencia las donacione	luccos locales agua de presión o ión	buy local products take a shower not waste water be a member of a pressure group daily obligation/commitm gathering/rally
cuidar (de) proteger se puede/se debe reciclar cartón latas papel usar el transporte pu ir a pie ir en bicicleta no comprar	to care (for) to protect you can/you recycle cardboard cans paper úblico use public tr go on foot go by bike not buy	comprar prod ducharse no malgastar ser miembro de un grupo d a diario el compromis ransport la concentrac la s donacione el espacio ver	luccos locales agua de presión o ión	buy local products take a shower not waste water be a member of a pressure group daily obligation/commitm gathering/rally awareness
En cuidar (de) proteger se puede/se debe reciclar cartón latas papel usar el transporte pu ir a pie ir en bicicleta no comprar envases de plástico	to care (for) to protect you can/you recycle cardboard cans paper Jblico use public tr go on foot go by bike	comprar prod ducharse no malgastar ser miembro de un grupo d a diario el compromis ransport la concentrac la s donacione el espacio ver	luccos locales agua de presión o ión es de	buy local products take a shower not waste water be a member of a pressure group daily obligation/commitm gathering/rally awareness donations

tengo inquietudes a basura	I have concerns
la basura la contaminación	
contaminante	contamination, pollution
el crecimiento	growth
el desperdicio de plástico	plastic waste
la destrucción	destruction
la extinción	extinction
los habitats naturales	natural habitats
las inundaciones	floods
las lluvias torrenciales	torrential rain
los mares	seas
medioambiental	environmental
el medio ambiente	environment
la sequía	drought
la tala de árboles	tree felling
alarmante	alarming
en peligro	in danger
preocupante	worrying
por todas partes	everywhere
trágico/a	tragic
me enfurece	l'm furious about
me da miedo	I'm scared of
me da pena	I'm saddened by
me da rabia	l'm angry about
me preocupa	I'm worried about

Relaciones con	Relationships with		H - KNOWLEDGE	ORGANISER		
familia y amigos	Family and Friends		Los medios sociales			-
el abuelo	grandfather		a veces	sometimes		
alegre	happy	2-2	chatear	to chat online		
amable	kind	00	colgar fotos	to post photos		OYO
anciano/a	old	3 A	el correo electrónic			VIV
oarba	beard		demasiado/a	too much		
calvo/a	bald		el país	country	~ ~ /	
carñoso/a	affectionate, tender		un poco	a little, a bit		
castaño/a	brown hair colour		lared	internet		
corto/a	short		la red social	social network		
lelgado/a	thin 🚺		todos los días	every day	El matrimonio y	Marriage an
gafas	glasses		genial	brilliant, great	parejas	Partnership
gracioso/a	funny		gratis	free of charge	cada vez más	more and more
el hermano	brother		el inconveniente	drawback, disadvantage	enamorado/a	in love
el hijo	son		mandar	to send	feliz	happy
oven	young		los medios sociales	social media	la gente	people
os ojos	eyes	$\mathcal{O}\mathcal{O}$	el móvil	mobile/smartphone	maleducado/a	rude
l padrastro	stepfather		el ordenador		el marido	husband
l pelo	hair		la pantalla	screen	el matrimonio	marriage
el tío	uncle		por mi parte	as far as I'm concerned	la mujer	wife, woman
iejo/a	old		tampoco	neither, nor	la novia	girlfriend, fiancée
					el novio	boyfriend, fiancé
		ortátil - M	obile Technology		la pareja	partner
lunque	although	borre	ar	to delete, erase	los parientes	relatives
nviar	to send	carg		to load	pelear(se)	to fight
ljuego	game		orreo basura	spam, junk mail		flat, apartment
ento/a	slow		quier	any	así que	so, therefore
l mensaje de te			ez en cuando	from time to time	la boda	wedding
avegar la red	to surf the interne	t el di	sco duro	hard drive		to get married
rohibido	forbidden	igua		same	el compañero/a	colleague, frienc
l regalo	present, gift		denador portátil	laptop	la fiesta	party, festival
idículo/a	ridiculous	saco	ar fotos	to take photos		next ²⁵
ota/a	broken	la ta	bleta	tablet	próximo/a	HEXI

La Música, El Cine Y La Tele	Music, Cinema and TV
aburrido/a	boring
bailar	to dance
cantar	to sing
el cine	cinema
de vez en cuando	from time to time
entretenido/a	entertaining
estimulante	challenging
leer	to read
la película	film
salir	to go out
a veces	sometimes
los dibujos animados	cartoons
el fin de semana	weekend
las noticias	news
nunca	never
por lo general	in general
siempre	always
la telenovela	soap opera
todo/a/os/as	all, every
tonto/a	silly, stupid

La Comida Y Comer Fuera	Food and Eating Out	
el agua	water 💡	
el bocadillo	sandwich	2
la carne	meat	
la comida	lunch, food, meal	
desayunar	to have breakfast	
el helado	ice cream	
el jamón	ham	
la manzana	apple	
las patatas fritas	chips, fries	
el pescado	fish	
el pollo	chicken	
el postre	dessert, pudding 🧹	
la tortilla	omelette 📎	
las verduras	vegetables 🛛 🤜	and a set
la cebolla	onion	
las gambas	prawns	
los guisantes	peas 💦	
los mariscos	seafood	The second se
la naranja	orange	
el plátano	banana	
el queso	cheese	
el vino blanco/tinto	white/red wine	

El Deporte - Sport				
al aire libre	in the open air, outdoors			
el baloncesto	basketball			
la equitación	horse riding 🛛 🔿 🧷			
el estadio	stadium			
montar a caballo	to ride a horse			
montar en bicicleta	to ride a bike	KVQ2		
la natación	swimming	K KALI		
el patinaje	skating			

El Depor	te - Sport]
la pista del hielo	ice rink	
el polideportivo	sports centre	
el alpinismo	rock climbng	
cansado/a	tired	N
el concurso	competition	
el entrenamiento	training	
el equipo	team	
el esquí	skiing	

El Depor	te - Sport	
ganar	to win	
el partido	match	
relajarse	to relax	
la vela 🔈	sailing	
	0 26	



Component 2: Responding to a Brief

Carnival

festival, fiesta, fete, gala, celebration, parade, march, 3D dimensions, intentions, recording skills, visual language, primary, secondary, stimulate, designing, resistant, non-resistant, modelling, carving, constructing, joining, moulding, volume, space, surface, firm, structure, measuring, estimating, finishing, firmina, assembling, investigating, properties, combinations, maquettes, exploratory, select

Techniques, Materials and Processes: sculpture,

clay, wood, wire, paper, maguettes, natural and manmade fibres, weaving, construction, plastics, fabrics, mod roc, withies, paper mache.

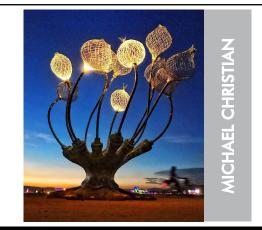


Carnival - a festival involving processions, music, dancing and the use of masquerade:

Artists, designers, crafts people, sculptors, interior designers, architects and product designers have working in three dimensions in common. 3D art, craft and design covers a wide range of practices across different disciplines to create objects that we may see or use in our homes, in public spaces, in galleries, in shops or in the workplace.

Working in 3D and exploring 3D visual language requires skills in handling 3D materials and techniques. In Component 2 you will experiment with a range of 3D visual languages whilst being inspired by Carnivals.

- Experiment with a diverse range of materials, equipment and techniques when developing 3D visual language.
- Develop in-depth investigations into a range of professional 3D practitioners and analyse how they communicate their ideas.
- for Success Imaginatively develop ideas that meet the requirements of the brief.
 - Analyse and explain the progress of your ideas and your use of 3D methods.
- Consider and record Health & Safety constraints and the formal elements used Tips in vour work.
 - Ensure your ideas have purpose and meaning
 - Understand that each material has its own set of rules and methods - but rules can be broken through experimentation and manipulation.
 - Take creative risks.



Assessment Objectives

- Demonstrate understanding of the AO1 requirements of a brief.
- AO2 Develop and produce a response to a brief
- AO3 Present a response to a brief.

4	Inspiration/Artists					
I	Venetian	Headdresses	Philip Treacy			
I	African	Costumes	Peter Minshall			
I	Mexican	Installations				
I	Gargoyles	Conceptual	Michael Christian			
I	Carnivals	Floats				
ų	Festivals	Masks	Sergio Boldrin			









Rio de Janeiro Notting Hill Mardi Gras Viareggio Carnival Trinidad & Tobago Carnival Burning Man Day of the Dead - Dia De Los Muertos Coachella



OF THE DEAD

MARDI GRA

Useful Websites

- www.craftscouncil.org.uk
- www.vam.ac.uk
- www.fashion-era.com
- www.culture24.org/

BUSINESS STUDIES

1.5 Understanding external influences on business

1.5.1 Business Stakeholders

Stakeholders – are anyone with an interest in the businesses success or failure. eg:

Shareholders (owners) – safe return on investment, increase in value of the business (share price), profit and dividends.

Employees – want secure employment, nice working conditions, good pay

Customers – A wide range of good quality, low priced goods and services easily available.

Suppliers – regular, large contracts at a good price.

Local community – job opportunities but potentially concerned with pollution etc

Pressure Groups - want business to behave ethically.

Government – want high tax receipts and low benefit claims, whilst making sure businesses stick to the law.

Above is what stakeholders want but you may also need to say what they give to the business

Conflicts

Often occur between owners and other stakeholders

Eg staff want a pay rise but owners not keen as will increase their costs and potentially their profits.

1.5.2 Technology and business

Different types of technology

e-commerce - buying and selling on the internet

social media – Tik Tok, Facebook, Snapchat, X etc

digital communications - email, video conferencing etc

payment systems – contactless payment, Chip and Pin, Apple Pay, PayPal etc

How technology influences business activity

Sales – increase due to 24/7 opportunities, the wider reach of websites and the increased convenience of payment methods.

Costs – tend to fall as no need for as many staff or to pay high rents for physical locations with high footfall.

Marketing Mix – wide range of <u>products</u> can be stocked on websites than in physical stores, As costs are lower this can be passed on to customer in lower <u>prices</u>. <u>Place</u> (website) can be open 24/7 and accessed from around the world, increasing convenience. <u>Promotion</u> – Digital advertising spend now 30% (2022) of all advertising spend in UK. Growth in "influencers" on social media, Cadbury Crème Egg has 2.1m followers on Facebook (2024)

1.5.3 Legislation and business

Principles of consumer law: product should be safe, fit for purpose, as described; if not customer has a level of protection to get refunds and in extreme circumstances sue.

Principles of employment law: this cover the areas of recruitment, discrimination and health and safety.

Impact of legislation on business:

Legislation generally adds costs to the business but can increase efficiency as workers may be more motivated in a better work environment. If businesses break the law they can face large fines.



1.5.5 External Influences

This is largely a recap of the previous topics but focusing on how businesses may respond to changes in:

Technology – Automating factories, Computer Aided Design, moving business online and closing physical stores, improved communication with staff, suppliers and customers.

Legislation - Impact of National Minimum Wage (and National Living Wage) etc

The economic climate – How would businesses deal with/be impacted by increased competition (lower price, increase promotion, renovate location etc), increased taxes, increased interest rates etc

1.5.4 The economy and business

Key Terms

Unemployment – the amount of people out of work and actively seeking a job of working age. High unemployment – low sales, choice in who you recruit. Low unemployment – high sales, difficult to recruit staff

Changing levels on consumer income – increasing income normally leads to more sales, decreasing income less sales

Inflation – the rate at which average prices are going up. High inflation leads to increase in costs, therefore increase in prices, normally demand goes down as people have less disposable money to spend.

Changes in interest rates - High interest rates make borrowing expensive, less demand, less investment

Government taxation – depending on type of tax a rise will lead to lower profits due to higher costs or lower sales due to lower demand, again reducing profit.

Changes in exchange rate – how much of a foreign currency you can get when you swap \pounds for them. The higher the exchange rate the cheaper it is to Import and harder to export the goods abroad.

Design Technology

151	th Apr 2024	- Metal Production	W/B 22nd	d Ap	or 2024 –	Plastic Production	W/B 29th	April 2024 -	- Wood Productior
Disposal	Recycle or landfill		Most plastics are made from synthetic polymers but some natural plastics are made from rubber plants. The source of all synthetic polymers follow the same production plan. The source Natural polymers come from rubber plants. The sap is harvested from a rubber plant and used to make tyres and latex gloves and condoms.	Disposal	Recycle or landfill		are softwoods ages but are	Recycle in to MDF or chipboard, biodegrade or burn	
Shipping	Distributed to the UK from factories		ral plastics are r ame production d from a rubber	Shipping	Distributed to the UK from factories		of whether they d processing sta	Distributed to the UK from factories in flat pack form	NN OTHER SMILL
Stage Source Processing Manufacture Shi	Bars and sheet are bent in to shape and molten metal is cast	Blast Funace Used for smetring - 51g out	s but some natu ers follow the sa sap is harveste	Manufacture	Pellets are melted and poured in to shapes		me (regardless c same source an	Making products form the planks	PLAN SMN
Processing	Smelting or electrolysis used to melt metal from the rock	Ore, coke, limestone Moltenn metal out	nthetic polymers synthetic polym bber plants. The nd condoms.	Processing	Fractional distillation to create long polymer chains	Factored Dispersion of the second sec	The production of all natural timbers is the same (regardless of whether they are softwoods or hardwoods. Manufactured boards have the same source and processing stages but are manufactured and disposed of differently.	rocessing Conversion of logs to planks of wood	Picture of plain sawn
Source	Mining ores from underground		e made from syr ne source of all s come from rul id latex gloves a	Source	Mining, drilling and fracking of oil		The production of all natural timbers is th or hardwoods. Manufactured boards have manufactured and disposed of differently.	Logging of trees from a forest	Picture of
Stage	Steel Aluminium Copper Iron		Most plastics are made from synthetic polymers but some natural plastics are made from rubber plants. The source of all synthetic polymers follow the same production plan. The sourc Natural polymers come from rubber plants. The sap is harvested from a rubber plant and used to make tyres and latex gloves and condoms.	Stage	Acrylic/ PP PET/ HIPs PVC/ Resin		The production or hardwoods. manufactured a	Pine/ Spruce Beech/ Oak Mahogany Teak	

W/B 6th May 2024 – Scales of Production



product is made often a machinery and prototype using highly skilled workers and expensive materials **Batch production** -A small quantity of the product is made two or more up to one hundred.

Mass production - A large number of the product is made on a production line. Many hundreds of the product could be made. This is often called repetitive flow production.

Continuous production - Very simple products Many thousands of the product are made. The difference between this are made this way and mass manufacturing such as: nuts/bc⁺⁻ is that continuous production is on 24 hours a day.

Just in time production -The arrival of parts at just the exact time that they are made using this required in the factory.

One off production -one Architecture, bespoke wedding dresses are made this way

> Seasonal goods, food, newspapers and § magazines are examples of this

Examples include: cars, electronic goods and most clothing and

shoes



that are only made using robots/ machines screws, Lego, packaging and



Construction materials and large furniture is method



W/B 13th May 2024 – Quality Control







Acard template is placed over the wood to be drilled. The hole in the card template should line up with the hole check it is the correct size and shape in the wood

After sanding the smoothness of the boomerang is checked by touch. Rough areas are sanded again.

Regulations: There are numerous organisations which take care of the public and the consumers interests. Most of these are set up by manufacturing bodies to make sure that all their members follow their voluntary code of practice. These groups give valuable direction to designers and manufacturers. The government also provides regulations by acts of parliament. One example is for Designers who need to protect their new design ideas from being copied.

Copyright, patents and registered design ideas are some examples of how the designer can be protected. Legislation - You are not normally required to remember all

the details of all legislations but the following are worth bearing in mind when designing.

The Consumer Protection Act - Tries to prevent the sale of harmful or defective products.

The Consumer Safety Act - This allows the government to ban the sale of dangerous products.

The Trade Description Act - This makes it illegal to make false claims about a product.

The Weights and Measures Act - This makes it illegal to sell products which are underweight or short measures.

Type Template



Jig

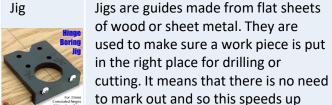




A former is a 3D object made from MDF or clay. It is used in the vacuum former to create a 3D shape. The material must be durable, so it can be used plenty of times, be heat proof so that it doesn't melt in the machine and have no undercuts so the material doesn't get stuck.

Mould

A hollow space used to pour molten metal or molten plastic in to. The shape needs to be simple and smooth so that the work has a professional finish. The mould will be used many times to make products identical.



Former



W/B 20th May 2024 – Production Aids

These can be made from paper, card

do. You draw around the shape to

make sure all products are identical.

can also be used to check accuracy

when doing quality control.

Templates have to be durable so they

can be used over and over again. They

of MDF and make marking out easy to

Description

production.

W/B 3rd Jun 2024 – Market Research

W/B 10th Jun 2024 – Product Analysis

ely sealed with no way of getting to is wirelessly which reduces the risk (

is safe to use as it side. The product

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The product bedrooms, la the toilet at i The product is low energy which makes it good for the environment but the plastic used is a finite resource and unless recorded can cause litter and W/B 17th Jun 2024 – Brief & Spec

The design process

Some one has an idea (the client). They employ a designer to work on the idea. The client gives a designer the design brief. The design brief is the starting point to work from. The designer then picks out important features of the design brief. One way of doing this is creating a spider diagram. This helps analyse the problem. It also helps to identify key pieces of research

Design Brief

What the product being designed and made is? Why the new product is wanted/ needed? How the product will be used? Who the product is for?

Example: The product needed is ergonomic cutlery for disabled children to use, who suffer from motor based issues (control of movement). This is important as it helps to develop children's independence and life skills. The product will be used by children between the ages of 3 -9 years old and should have the possibility of being used at home but also taken to school/ restaurants if needed.

Specification

Definition: A list of essential and desirable things to include in a product. This is usually made by the designer after meeting with the client and completing all research. It can be used to evaluate how successful the product or design idea is.

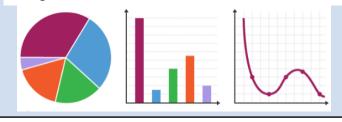


Example: It is essential that the product is made from a waterproof material so that it does not absorb water (making it heavy) and make the wearer cold. It is essential that it is brightly coloured so that rescuers can easily spot the user. It is essential that the strap is adjustable and easy to use so that it can fit most people and be used in an emergency. It is desirable to include a whistle or a light to help the user to alert attention.

Primary sources of information are gathered by the designer and used to help improve their designs:

- Market research Looking at products that already exist and talking to clients to collect a wide range of information on what is successful and what needs developing to ensure a product is viable. Interviews and questionnaires can be used to gather information on shape, colour, materials and function of existing products and the answers analysed to improve the product.
- Focus groups Another valuable perspective can be found by talking to the product's <u>target market</u>. Small groups can be interviewed, giving feedback before, during and after production, which can be used to improve the outcome.
- Product analysis Looking at products that already exist can help improve further designs by pinpointing issues to improve designs and prototypes.
- Anthropometrics Collecting maximum and minimum measurements about the target market's sizes can help improve designs by making the product easier or more comfortable to use. Anthropometric data can be used to work out the <u>dimensions</u> and <u>load stresses</u> of a product.
- Ergonomics Testing and analysing how a person interacts with the product can improve its functionality and how it fits into its surroundings.

Data from questionnaires can be presented visually using graphs, pie charts and tables, making it easier to analyse and summarise. Anthropometric and ergonomic details collected can be averaged out to find the sizes that fit most users. The average measurement <u>percentile</u> is typically the biggest group of users sharing a measurement.





W/B 24th Jun 2024 - Isometrics

good way of showing

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are

measurements and how components fit together. Unlike perspective drawings, they

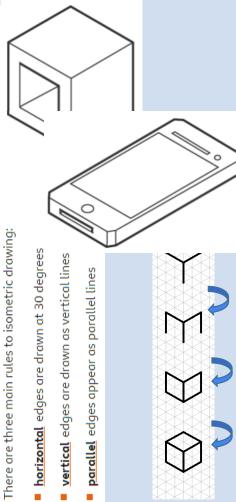
don't get smaller as the lines go into the distance.

sometimes called isometric projections,

sometric drawings,

sometric

Isometric drawings are used to show a graphical representation of a 3D object. They are used by architects and engineers to communicate their ideas to the client and manufacturer, showing the product or design **to scale**



W/B 1st July 2024 - Perspective

Single-point perspective -This shows an object from the front in a realistic way as it gets smaller going into the distance. The front view goes back towards a vanishing point, which is a point on the horizon line that all lines meet at.



Two-point perspective - This shows an object from the side with two vanishing points. It gives the most realistic view of a product as it shows the item edge on, as we would see it. It is often used to produce realistic drawings of an object.



Oblique projection is a simple type of technical drawing of graphical projection used for producing two-dimensional images of three-dimensional objects. The objects are not in perspective, so they do not correspond to any view of an object that can be obtained in practice, but the technique does yield somewhat convincing and useful images. (a) Drow the fract view.





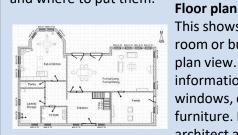
W/B 8th July 2024 – Working Drawings

Block diagram

Input	Process	Output				
LDR (light sensor)	Op Amp	LED				
Schematic diagram	Circuit	Types				
These both show wh	iat o	-				
is needed inside a						
circuit. The schemat	ic T 💿 🗌	<u>–</u>				

Parallel Circuit

diagram shows more detail on components and where to put them.

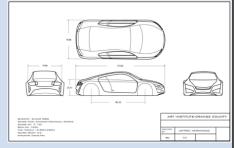


This shows the layout of a room or building from the plan view. It shows key information such as: windows, doors and large furniture. It is used by an architect and any builders

Orthographic projection drawing

This shows a product in 2D from all sides. They are lined up with construction lines and hidden views are shown with a dashed line. These drawings are always done to scale and show dimensions in mm. It is used by engineers, designers and manufacturers.

An orthographic projection drawing always has at least 3 views: Plan view (top) Front view Side view





COMPONENT 1 LIVE THEATRE EVALUATION

Key Terms

Describe - to write what you saw and heard - how actors use theatrical skills.

ANALYSE - to examine in detail by looking at the different elements and to explain it.

EVALUATE - to judge or form an opinion, e.g. explaining what effect was created and how successful it was for the audience.

KNOWLEDGE AND UNDERSTANDING OF THE PLAY

- Context of the play.
- Features of the style and genre of the play.
- The plot
- Characters
- Reviews of the play and production.
- Drama devices used.
- How relationships with other characters on stage were communicated by the actor.
- Stage Design and how the actors used it.

WRITING ABOUT DRAMA

WHAT IS A SPECIFIC EXAMPLE?

WHAT did the actor do?WHEN did the actor do it?HOW did the actor do it?WHY did the actor do it?

Interaction between the actor and other characters?

The outcome for the audience.

THEATRICAL SKILLS?

PHYSICAL SKILLS	VOCAL SKILLS
BODY LANGUAGE	PITCH
POSTURE	PACE
GESTURE	VOLUME
MOVEMENT	TONE
SPATIAL AWARENESS	PROJECTION
USE OF LEVELS	ACCENT
FACIAL EXPRESSION	INTONATION
EYE CONTACT	TIMING
PROXEMICS	EMOTIONAL
	RANGE
	DELIVERY OF LINES

Component 2 Devised Theatre

STYLE AND PRACTITIONERS

Naturalistic, Epic Theatre, Semi-naturalistic, Abstract, Stanislavski, Brecht, Frantic assembly

GROUP SKILLS

Choral Speech, Choral movement, Counterpoint, Repetition and Echo, Synchronised, movement/ Unison, Canon, Banners, Characterisation, Multirole

DRAMA DEVICES

STILL IMAGE	THOUGHT-TRACK		
MONOLOGUE	SPLIT STAGE		
CROSS-CUTTING	MIME		
PHYSICAL THEATRE	NARRATION		
FLASH FORWARD	FLASHBACK		
SLOW MOTION			
MARKING THE MOMENT			

WHAT TYPE OF GROUP MEMBER ARE YOU?

LEADER: you have ideas and are happy to express them. You enjoy being in charge. You may sometimes be frustrated if others aren't following you or disagree with you.

HELPER: you don't usually lead, but you are happy to put forward your ideas and work with others. You may assist Leaders to see their ideas through or encourage others to take part.

PASSENGER: you don't want to lead and you aren't confident about putting your ideas forward. However, you will go along with what the group wants to do.

BLOCKER: you find group work frustrating and you don't positively help the group. You might tend to argue with others, refuse to co-operate or become distracted.

REHEARSAL TECHNIQUES

Character Objectives, hot-seating, Emotional Memory, Improvisation, Character Modelling, Back-story, Research, Internal Dramatic Dialogue

Students must develop their ability to:

- ☺ carry out research
- Output develop their own ideas
- $\ensuremath{\mathfrak{O}}$ collaborate with others
- $\ensuremath{\mathfrak{O}}$ rehearse, refine and amend their work in progress
- analyse and evaluate their own process of creating devised drama
- © realise artistic intention in devised drama

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AMA VO	RESPONDING TO A STIMULUS					
antic Assembly	Which characters de	e you think of?	r stimulus?	 What do you want want the audience What was the initia 	you undertake? but once you had comple to show through your ch to see about them? I purpose of your piece o bw? How do you want y	naracter? What do yo verall? What messag
Physical Theatre	Movement	Expression	Gesture	Interaction	Voice	Audience
Theatre ompany	Gait - the way you walk. Posture - the position you	Facial Expression - showing your character's	A movement, using the hand, that expresses an	Eye contact (or lack of).	Pitch - how high or low your voice is.	What effect does this have on the audience
ines music,	hold you body when standing or sitting.	emotion by using your face.	idea or communicates meaning.	Proxemics - the distance between the characters that communicates their	Pace - how quickly you speak.	What do you want th audience to see/feel?
ent and text -disciplinary	Stance - the way you stand.	When describing, focus on the eyes, eyebrows	When describing, describe in detail, e.g. "I	relationship/situation.	Volume - how loud you speak.	How do you know
r Duets	Body Language - how you express your	and mouth.	used a gesture where I outstretched my hand to		Use of pause - pausing before a line of speech.	your performance wa successful? How did
Origins	emotions through your body.		show I wanted to ignore the other character."		Tone - showing your character's emotions	audience react?

CONSTANTIN STANISLAVSKI

NATURALISTIC

BERTOLT BRECHT

NON-NATURALISTIC

The magic 'lf'	Stanislavski said that the character should answer the question, 'What would I do if I was in this situation?@. Also known as the 'magic if', this technique means that the actor puts themselves into the character's situation. This then stimulates the motivation to enable the actor to play the role.	Verfremdungseffekt (The V effect OR the alienation effect)	Distancing the audience from becoming attached emotionally to the characters/the narrative by reminding them constantly they are watching a play. This enables the audience to think about the subject(s) and themes of the play and possibly take action rather than just being entertained.
Emotional memory	Emotional memory is when the actor finds a real past experience where they felt a similar emotion to that demanded by the role they are playing. They	Breaking the fourth wall	Addressing or acknowledging the audience directly in order to remind them they are watching a piece of theatre.
Subtext	then 'borrow' those feelings to bring the role to life. The subtext is the actual meaning and motivation behind the lines that are	Gestus	Gestus is a clear character gesture or movement used by the actor that captures a moment or attitude rather than delving into emotion,
Objectives and super-objectives	spoken and the actions taken. An objective is the reason for our actions. What are we trying to achieve? The super-objective is an over-reaching objective, probably linked to the overall outcome in the play.	Narration	Narration is used to remind the audience that what they're watching is a presentation of a story. Sometimes the narrator will tell us what happens in the story before it has happened. This is a good way of making sure that we don't become emotionally involved in the action to come as we already know the outcome.
Given circumstances	The information about the character that you start off with and the play as a whole. How old is the character? What's their situation in the play and in relation to the other characters?	Placards	A placard is a sign or additional piece of written information presented on stage. Using placards might be as simple as holding up a card or banner. What,'s important is that the information doesn't just comment upon the action but deepens our understanding of it.
Method of physical actions	Imagine a simple activity like cleaning your teeth and then imagine a husband cleaning his teeth whilst deliberating on how to tell his wife about his mistress. This is a simple illustration of how a physical action can release the necessary emotions.	Non-linear structure	Scenes are episodic, which means they stand alone and are constructed in small chunks, rather than creating a lengthy and slow build of tension. Epic theatre often has a fractured narrative that is non-linear and mumps about in time, including flashbacks/ flash-forwards.
Realistic settings and characters	The objective of naturalism is to create a performance that is as close to real life as possible. Therefore, settings and characters should realistic.	Spass	Making jokes/including comedy to stop the audience from connecting emptionally to the characters. The audience will laugh and then question why they laughed.

Hospitality and Catering

Level 1/2 Hospitality and Catering: Unit 1-1.1.1 - Standards and ratings



Standards and ratings: You will need to be able to know the importance of standards and ratings within the hospitality and catering industry, they are hotel and guest house standards, and restaurant standards.

Hotel and guest house standards

Hotels and guest houses standards are awarded and given star ratings. You should know what criteria is needed to be met for an establishment to receive each star rating.

<u>Star rating 1</u> = Basic and acceptable accommodation and facilities. Simple rooms with no room service offered.

<u>Star rating 2</u> = Average accommodation and facilities, a small establishment, and would not offer room service or have a restaurant.

<u>Star rating 3</u> = Good accommodation and facilities. One restaurant in the establishment, room service available between certain hours, and Wi-Fi in selected areas are provided. The establishment could have a pool and gym.

<u>Star rating 4</u> = Very good accommodation and facilities. Large hotel & reception area of a very good standard. Certain hours of room service, with a swimming pool and valet parking offered.

<u>Star rating 5</u> = Excellent standard of accommodation, facilities, and cuisine. Offer valet parking, 24 hr room service, spa, swimming pool, gym, and concierge service.

Restaurant standards

Restaurant standards have three main possible awards or ratings that you should know. They are listed below:

AA Rosette award

Ratings between one and five rosettes could be awarded based on the following:

- · different types and variety of foods offered
- · quality of the ingredients used
- · where the ingredients are sourced
- · how the food is cooked, presented and tastes
- skill level and techniques used as well as the creativity of the chef.



https://www.stirkhouse.co.uk/about-us/awards/ attachment/award-rosette

Michelin star

A rating between one and three Michelin stars could be awarded based on the following:

- quality of ingredients used
- · cooking and presentation techniques
- taste of the dishes
- · standard of the cuisine
- value for money.



https://guide.michelin.com/us/en/california/to-the-starsand-beyond

Good food guide

A rating between one and 10 could be awarded based on the following:

- cooking skills
- · quality of ingredients
- techningues and cooking skills shown.

Level 1/2 Hospitality and Catering Knowledge Organiser: Unit 1: 1.1.1 -Types of Hospitality and catering provisions



Hospitality and catering providers

You must understand, be able to name, and explain the two different provisions in hospitality and catering. Commercial: the business aims to make profit from the hospitality and catering provision that they provide. Non-commercial: the service provider doesn't aim to make a profit from the service they provide.

Non-commercial (residential)

Commercial (residential): meaning the hospitality and catering provision aims to create a profit from the service they provide, but also offers accommodation.

Commercial (residential)

For example:

- hotels, motels & hostels
- B&B, guest houses and Airbnb
- holiday parks, lodges, pods, and cabins
- campsites and caravan parks.

Non-commercial (residential): the hospitality and catering provision offers accommodation but does not aim to make a profit from the service they provide.

For example:

- hospitals, hospices, and care homes
- armed forces
- prisons
- boarding schools, colleges, and university residences.

Commercial (non-residential)

Commercial (non-residential): catering establishments that aim to make a profit from their service, but no accommodation is provided.

For example:

- restaurants and bistros
- cafes, tea rooms and coffee shops
- takeaways
- fast food outlets
- public houses and bars
- airlines, cruise ships, long distance trains
- pop up restaurants
- food and drink provided by stadiums, concert halls and tourist attractions
- mobile food vans and street food trucks
- vending machines.

Non-commercial (non-residential)

Non-commercial (non-residential): catering establishments with no accommodation provided and don't aim to make a profit from their service.

For example:

- · schools, colleges, and universities
- meals on wheels
- canteen in working establishments (subsidised)
- charity run food providers.



Level 1/2 Hospitality and Catering: Unit 1-1.1.1 -

Types of service in commercial and non-commercial provisions



wjec eduqas cbac

Types of service in commercial and non-commercial provision

You need to be able to understand and know the different types of service within commercial and non-commercial provision. They are split into two main categories of food service and residential service.

Food service

The different types of food services in the catering sector are listed below. You should know the meaning of each one and be able to provide examples. For instance;

Table service

- Plate: the food is put on plates in the kitchen and served by waiting staff. Good
 portion control and food presentation consistent.
- Silver: a waiter will transfer food from a serving dish to the customer's plate using a silver spoon and fork at their table.
- Banquet: a range of foods suitable for large catered events such as weddings, parties, or award ceremonies.
- Family style: the food is placed on serving bowls on the customer's table for customers to share between them.
- Gueridon: is served from a trolley to the customer's table, the food is then cooked and/or finished and presented in front of the customer. Creates an atmosphere of sophistication and entertainment.

Counter service

- Cafeteria: all types of food and drink are shown on a long counter for customers to move along with a tray for them to choose what they want to eat.
- Fast food: the food and drink is displayed on a menu behind the counter, often with pictures. Quick, simple, and usually served with disposable packaging.
- Buffet: a range of foods served on a big serving table where customers walk up to collect their plate and help themselves to food and drink. The food can be hot or cold, and some items could be served by waiting staff.

Personal service

- Tray or trolley: the meals are served on trays from a trolley and customers sometimes order items in advance.
- Home delivery: the customer's order is made over the phone or online, and is then delivered by the business to their address.
- Takeaway: food that's cooked by the business onsite and then eaten elsewhere.

Residential service

Listed below are the different types of residential types of service in the hospitality and catering sector. You should know the different types of service offered in various hospitality provisions.

Rooms:

- single/ double/ king/ family
- suite (en-suite bath/ shower room, shared facilities).

Refreshments:

- breakfast/ lunch/ evening meal
- 24-hour room service/ restaurant available.

Leisure facilities:

- spa
- gym

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swimming pool.

Conference and function facilities:

- large rooms
- overhead projector and computer
- · pens and paper provided
- refreshments available.



Level 1/2 Hospitality and Catering: Unit 1-1.1.2 -Types of employment roles and responsibilities within the industry



Front of house

- Front of house manager: oversees all staff at the restaurant, provides training, hiring of staff, and ensures good customer service.
- Head waiter: oversees the waiting staff of the restaurant in high-end eating establishments.
- Waiting staff: greets customers, shows them their table, takes food and drink orders from customers, and serves them their order. Makes sure customers' needs are met, and that the food order is made correctly.
- Concierge: advises and helps customers with trips and tourist attractions. Books taxis for customers and parks customer cars.
- Receptionist: takes bookings, deals with questions and complaints from customers, checks-in customers, takes payment, and provides room keys.
- Maître d'hôte: oversees the service of food and drinks to customers. They greet customers, check bookings, reservations, and supervise waiting staff.

Kitchen brigade

- Executive chef: in charge or the whole kitchen, developing menus and overlooking the rest of the staff.
- Sous-Chef: the deputy in the kitchen and is in charge when the executive chef isn't available.
- Chef de partie: in charge of a specific area in the kitchen.
- Commis chef: learning different skills in all areas of the kitchen. Helps every chef in the kitchen.
- · Pastry chef: prepares all desserts, pastry dishes and bakes.
- Kitchen assistant: helps with the peeling, chopping, washing, cutting of ingredients, and helps washing dishes and stored correctly.
- Apprentice: an individual in training in the kitchen and helps a chef prepare and cook dishes.
- · Kitchen porter/ plongeur: washes the dishes and other cleaning duties.

Housekeeping

- Chambermaid: cleans guests' rooms when they leave, and restocks products that have been used, they also provide new bedding and towels.
- · Cleaner: cleans hallways and the public areas of the establishment.
- Maintenance: repairs and maintains the establishment's machines and equipment, such as heating and air conditioning. These responsibilities could also include painting, flooring repair or electrical repair.
- · Caretaker: carries out the day to day maintenance of the establishment.



Management

- Food and beverage: responsible for the provision of food and drink in the establishment which will include breakfast, lunch, dinner, and conferences.
- Housekeeping: ensuring laundering of bed linen & towels, ordering of cleaning products and overseeing housekeeping staff duties.
- Marketing: promotes events and offers to increase custom at the establishment, and is responsible for the revenue of the business.



wjec eduqas cbac

Level 1/2 Hospitality and Catering: Unit 1-1.1.3 -Working conditions in the hospitality and catering industry



Types of employment contracts and working hours

You need to know the following types of employment contacts and working hours.

- <u>Casual</u>: this type of contact could be provided through an agency and used to cover employees that are absent from work due to illness. There is no sick pay or holiday entitlement with this type of employment.
- <u>Full time (permanent)</u>: working hours including start and finishing times are fixed and stated in this type of contract. A contact of this nature allows the employee to have sick pay and holiday entitlement.
- <u>Part-time (permanent)</u>: working hours mean that the employee works on certain days of the week. Work times are stated in the contract, including the starting and finishing times that are fixed in this type of contract. The employee has sick pay and holiday entitlement in this type of contact.
- <u>Seasonal</u>: this type of contract is used when a business needs more staff due to busy times throughout the year, such as the Christmas period. The contract will state for the employee to work for a specific time frame only. Also, the contract would not expect further or regular work after the contact is complete.
- Zero hours contract: this type of contact is chosen between the employer and the employee. This means that the employee can sign an agreement to be available for work when the employer needs staff. No number of days or hours is stated in the contract and the employer doesn't require to ask the employee to work, and neither does the employee have to accept the work offered. No sick pay or holiday entitlement is offered for this type of contract.



Pay and benefits in the industry

The following pay and benefits are what you should be aware of in the industry.

- <u>A salary</u>: this type of pay is a fixed amount of money paid by the employer monthly, but is often shown as an annual sum on the contract.
- <u>Holiday entitlement</u>: employees are entitled to 28 days paid a year. Part-time contracts are entitled less depending to their contract hours.
- **Pension**: on retirement age, an employee qualifies for a pension contribution by the employer and the government.
- <u>Sickness pay</u>: money paid to the employee with certain contracts when they are unable to go to work due to illness.
- <u>Rates of pay</u>: national minimum wage should lawfully be offered to all employees over 18 years of age. This rate is per hour and is reviewed each year by the government.
- <u>Tips</u>: money given to an employee as a 'thank you' reward for good service from the customer.
- **Bonus and rewards:** given from an employer to the employee as a way of rewarding all the hard work shown from the employee throughout the year, and helping make the business a success. Also known as remuneration.

Working hours

The working hours directive in the UK states that employees on average cannot work more than 48 hours which is worked out over a period of 17 weeks. Employees can choose not to follow this and work more hours if they want to.

People under the age of 18 cannot work more than eight hours a day and 40 hours a week.

Employees that work six hours or more a day must have a break of 20 minutes, and have the right to have at least one day off every week.

Level 1/2 Hospitality and Catering: Unit 1-1.3.1 -Health and safety in hospitality and catering provisions



Control of Substances Hazardous to Health Regulations (COSHH) 2022

What employers need to do by law	What paid employees need to do
Control substances that are dangerous to health.	Attend all training sessions regarding COSHH.
Provide correct storage for those substances and appropriate training for staff.	Follow instructions carefully when using the substances.
Some examples of substances that are dangerous to health include cleaning products, gases, powders & dust, fumes, vapours of cleaning products and biological agents.	Know the different types of symbols used to know different types of substances and how they can harm users and others when used incorrectly.

Health and Satefy at Work Act 1974 (HASAWA)

What employers need to do by law	What paid employees need to do
Protect the health, wellbeing and safety of employees, customers and others.	Take reasonable care of their own health and safety and the health and safety of others.
Review and assess the risks that could cause injuries.	Follow instructions from the employer and inform them of any faulty equipment.
Provide training for workers to deal with the risks.	Attend health and safety training sessions.
Inform staff of the risks in the workplace.	Not to misuse equipment.

Personal Protective Equipment at Work Regulations (PPER) 1992

What employers need to do by law	What paid employees need to do
Provide PPE e.g. masks, hats, glasses and protective clothes.	Attend training and wear PPE such as chef's jacket, protective footwear and
Provide signs to remind employees to wear PPE.	gloves when using cleaning chemicals.
Provide quality PPE and ensure that it is stored correctly.	

Report of Injuries, Diseases and Dangerous Occurences Regulations (RIDDOR) 2013

What employers need to do by law	What paid employees need to do
Inform the Health and Safety Executive (HSE) of any accidents, dangerous events, injuries or diseases that happen in the workplace.	Report any concerns of health and safety matters to the employer immediately. If nothing is resolved, then inform the HSE.
Keep a record of any injuries, dangerous events or diseases that happen in the workplace.	Record any injury in the accident report book.

What employers need to do by law	What paid employees need to do
Provide training for staff.	Ask for help if needed.
Assess and review any lifting and carrying activities that cannot be avoided.	Squat with feet either side of the item. Keep
Store heavy equipment on the floor or on low shelves.	back straight as you start to lift. Keep the item close to your body whilst
Provide lifting and carrying equipment where possible.	walking. Make sure you can see where you're going.

Risks to health and security including the level of risk (low, medium, high) in relation to employers, employees, suppliers and customers

Review and assess level of risks in the workplace e.g. slips, trips, falls, burns etc by completing a risk assessment to avoid from happening.

Manual Handling Operations Regulations 1992

Level 1/2 Hospitality and Catering: Unit 1-1.3.2 -Food safety



Hazard Analysis and Critical Control Points (HACCP)

Every food business lawfully needs to ensure the health and safety of customers whilst visiting their establishment. To ensure this, they need to take reasonable measures to avoid risks to health. HACCP is a food safety management system which is used in businesses to ensure dangers and risks are noted and how to avoid them.

HACCP table

All food businesses are required to:

- · assess and review food safety risks
- identify critical control points to reduce or remove the risk from happening
- ensure that procedures are followed by all members of staff
- keep records as evidence to show that the procedures in place are working.

Food Hazards

A food hazard is something that makes food unfit or unsafe to eat that could cause harm or illness to the consumer. There are three main types of food safety hazards:

- Chemical from substances or chemical contamination e.g. cleaning products.
- Physical objects in food e.g. metal or plastic.
- Microbiological harmful bacteria e.g. bacterial food poisoning such as Salmonella.

Here is an example of a HACCP table - it states some risks to food safety and some control points.

Hazard	Analysis	Critical Control Point
Receipt of food	Food items damaged when delivered / perishable food items are at room temperature / frozen food that is thawed on delivery.	Check that the temperature of high-risk foods are between 0°C and 5°C and frozen are between -18°C and -22°C. Refuse any items that are not up to standard.
Food storage dried/chilled/frozen)	Food poisoning / cross contamination / named food hazards / stored incorrectly or incorrect temperature / out of date foods.	Keep high-risk foods on correct shelf in fridge. Stock rotation – FIFO. Log temperatures regularly.
ood preparation	Growth of food poisoning in food preparation area / cross contamination of ready to eat and high-risk foods / using out of date food.	Use colour coded chopping boards. Wash hands to prevent cross-contamination. Check dates of food regularly. Mark dates on containers.
Cooking foods	Contamination of physical / microbiological and chemical such as hair, bleach, blood etc. High risk foods may not be cooked properly.	Good personal hygiene and wearing no jewellery. Use a food probe to check core temperature is 75°C. Surface area & equipment cleaned properly.
Serving food	Hot foods not being held at correct temperature / foods being held too long and risk of food poisoning. Physical / cross-contamination from servers.	Keep food hot at 63°C for no more than 2 hours. Make sure staff serve with colour coded tongs or different spoons to handle food. Cold food served at 5°C or below. Food covered when needed.

Level 1/2 Hospitality and Catering: Unit 1: Contributing factors to the success of hospitality and catering provision (AC1.4)

Contributing factors

The hospitality and catering sector is very competitive, and many businesses fail in the first year of operation. There are many factors that must be managed carefully for hospitality and catering businesses to make a profit and continue to operate in the long term.

Basic costs

Labour: These costs include employee wages, National Insurance contributions and pension contributions.

Material: These costs include decoration, furnishings, kitchen and dining equipment, ingredients, printing and health and safety equipment.

Profit

Gross Profit: The difference between how much a

menu item costs to make and how much it sells for.

the gross profit. If the ingredient cost for a chocolate

brownie dessert is £1.50 and the menu price is £4.50,

Ingredient costs should not be more than 30% of

Overheads: These costs include rent, rates, gas and electricity, insurance, licensing, training and maintenance.

Economy

The value of the pound (\pounds) can affect the hospitality and catering sector. If the economy is good, people will be willing to spend more. If the economy is weak (recession), people may decide that eating out or going on holiday is a luxury and will spend less.

VAT (Value Added Tax) is added to the final cost of goods and services offered in the hospitality and catering sector. The money from VAT goes to the government to pay for services everyone uses for example the NHS.

New technologies have benefitted the sector in positive ways. These include:

 cashless systems such as contactless cards and mobile payment apps

New technology

- digital systems such as online booking/ordering and key cards
- · office software such as stock ordering systems.

Environmental impact

Running a hospitality or catering provision uses a lot of resources. Businesses are encouraged to **reduce**, **reuse**, and **recycle**. Energy efficient equipment such as low energy light bulbs can save a business money. Using local and seasonal ingredients reduces the amount of CO_2 released into the atmosphere during transport. All waste should be separated and recycled or composted when possible.

Media

The hospitality and catering sector is very competitive, so most businesses try to make good use of the media to advertise. Most businesses will have their own **website**, which customers can use to view menus and make bookings.

- Print Media: Ads in magazines and newspapers, flyers and money-off vouchers.
- · Broadcast media: Television, radio and online ads.
- Social media: Customer feedback and reviews.

Consumers are increasingly using smartphones to book, order, pay and review.

the gross profit is £3.00.

Gross Profit % = (3.00 ÷ 4.50) x 100 = 66.6%

Net Profit = What is left from the gross profit once all costs (as listed above) are covered.

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Level 1/2 Hospitality and Catering: Unit 1: The operation of front and back of house: Front of house (AC2.2)



Operational requirements

To run a successful hospitality and catering business, it is important that the front of house is welcoming to all customers. A logical layout and workflow will mean that the customers will be able to enjoy organised, efficient service.

In a catering establishment such as a café, the front of house is where the customers are served.

In a residential establishment such as a hotel, the front of house is where guests are received before checking in to their room.

Catering and residential establishments have common front of house areas, which help to ensure a smooth operation of the business.

Front of house dress code

The front of house dress creates a first impression. In some establishments a **uniform** may be worn. In other establishments, employees may be required to wear colours such as black and white. In addition:

- clothing must be clean and ironed
- if worn, jewellery, perfume and make-up must be minimal
- · personal hygiene must be maintained
- name badges may be required.

Restaurant workflov

The workflow should be organised so that orders can be filled, and food can be passed from the kitchen as quickly as possible.

Reception: Guests are greeted and shown to their seats in the dining area.

Seating/dining area: In a large restaurant, this area is divided into **stations**. Each station is managed by a waitperson.

Counter service: Food is on display for customers to choose and pay at the end. Some restaurants also offer seated counter service.

Bar: An area for socialising or eating in a less formal space.

Equipment station: Small items such as cutlery and serviettes and food items such as condiments should be available to wait staff.

Toilets: Customer toilets should be clean and welcoming.

Safety Equipment: First aid boxes and fire extinguishers must be easily accessed.

Hotel workflow

The workflow of a hotel should be organised so that guests can be checked in as quickly as possible.

Reception: Guests are checked in and receive keys/ key cards for their room.

Lobby/waiting area: This area should have comfortable seating for the guests. Drinks may be available in the lobby.

Stairs/Lifts: These provide access to rooms and other facilities.

Toilets: Customer toilets should be clean and welcoming.

Administration and documents

Businesses may employ an administrator who keeps track of:

- staff employment and training records
- · stock orders, delivery records and invoices
- · health and safety documents
- · financial information
- customer feedback
- advertising.

Level 1/2 Hospitality and Catering: Unit 1: The operation of the kitchen: Equipment (AC2.1)



Kitchen equipment

It is important that a business invests in good quality kitchen equipment to produce food safely. Even though good quality equipment is expensive, for example stainless steel pots and pans, in the long run they will pay for themselves as they should not need to be replaced often. Good quality electrical equipment will cost less to run, which will also save money and increase profits.

Large equipment	
Storage:	walk-in fridge, freezer, blast chiller, glass chiller.
Preparation:	floor standing food mixer.
Cooking:	conventional oven, deep fat fryer, hot water urn, standing bain-marie, hot plate/griddle, steamer, grill/salamander.
Cleaning:	pass-through dishwasher, glass washer.

Mechanical equipment

Preparation:	weighing scales, electric whisk, food processor, blender, mincer, meat slicer, vegetable peeler, juicer, ice cream maker.
Cooking:	temperature probes.
Specialist equipment:	conveyor toaster, panini maker, coffee maker, pizza oven, <i>sous vide</i> , pasta maker.

Small equipment

Preparation:	mixing bowls, measuring jugs and spoons, whisks, spatulas, sieves, knives, chopping boards, zester, juicer, piping bags and tips, graters.
Cooking:	pots and pans, baking dishes, baking trays, tongs, colanders.
Serving:	plates, bowls, glassware.

Cleaning and safety materials and equipment

Cleaning:	detergents, cleaning chemicals, scouring pads, cloths, mops, dustpan and brush, buckets, recycling and waste bags and bins.date labels for food storage, foil, baking paper.	
Preparation:		
Safety:	fire extinguisher/blanket, smoke/CO ₂ alarm, first aid box, oven gloves.	



Operational requirements

To run a successful hospitality and catering business, it is important that the back of house is well designed to allow safe working conditions for the kitchen staff. A good workflow also allows the safe movement of front of house staff between the kitchen and dining room so that customers enjoy efficient food service.

	Kitchen workflow
Delivery area	Located at the kitchen entrance. Deliveries are checked against the order and temperatures of high-risk foods are recorded.
Storage area	Cool area: contains fridges and freezers for storing high-risk foods, as well as space for storing fresh fruit and vegetables. Dry area: for storing canned and dry goods.
Staffing area	A separate area where employees can change into work clothing. Staff toilets and hand washing facilities are provided. This area may also be used as a breaktime lounge.
Preparation area	A large kitchen will have separate areas for the preparation of meat and poultry, fish, fruits and vegetables and pastries and desserts.
Cooking area	A large kitchen will have separate cooking areas for hot wet foods such as soups, sauces and steamed vegetables and a dry cooking area for roasting, baking, grilling and frying.
Serving area	A large kitchen will have separate areas for plating and presenting hot and cold foods. Waiters will collect orders from "the pass" to deliver to customers in the restaurant.
Cleaning area	This area should be separate from the main kitchen. Dirty crockery and cutlery as well as pots and pans from the kitchen are cleaned and stored in this area.
Waste area	This area should be separate from the main kitchen. Food waste and recyclable and non-recyclable waste is sorted and then disposed in the correct bins, which should be located outside.

Back of house dress code

The traditional chef's uniform is designed to show authority in the kitchen. Known as "chef's whites", they come in many colours. Key uniform items are: a long-sleeved, double-breasted jacket, long trousers, head covering, apron, and non-slip, toe-protected shoes. The clothing and shoes protect the wearer from injury while the head covering protects the food from hair and sweat.

Level 1/2 Hospitality and Catering: Unit 1: Food related causes of ill health (AC4.1)



Food related causes of ill health

Ill health could be caused by any of the following:

- bacteria
- allergies
- intolerances
- chemicals such as:
- detergent and bleach
- pesticides and fertilisers.

Intolerances

Some people feel unwell when they eat certain foods. Common foods that cause intolerance include:

- milk (lactose)
- · cereals (gluten)
- · artificial sweeteners (Aspartame)
- flavour enhancers (MSG).

Food poisoning bacteria

The main causes of food poisoning bacteria are:

- · Bacillus cereus: found in reheated rice and other starchy foods.
- Campylobacter: found in raw and undercooked poultry and meat and unpasteurised milk.
- Clostridium perfringens: found in human and animal intestines and raw poultry and meat.
- · E-coli: found in raw meat, especially mince.
- · Listeria: found in polluted water and unwashed fruit and vegetables.
- · Salmonella: found in raw meat, poultry and eggs.
- · Staphylococcus aureus: found in human nose and mouth.

Food and the law

Food can cause ill-health if it is stored, prepared and/or cooked incorrectly or if a person unknowingly eats a food that they are allergic or intolerant to. All hospitality and catering provision need to follow laws that ensure food is safe to eat. They are:

- Food Labelling Regulations (2006): A label must show all ingredients including allergens, how to store and prepare the food, where it came from, the weight of the food and a use-by or best-before date.
- Food Safety (General Food Hygiene Regulations) 1995: This law makes sure that anyone who handles food - from field to plate – does so in a safe and hygienic way. The HACCP system is used throughout the hospitality and catering sector.
- Food Safety Act 1990: This law makes sure that the food people it is safe to eat, contains ingredients fit for human consumption and is labelled truthfully.

Food allergies

An allergy is a reaction to something found in food. In the case of a severe allergy, the reaction can lead to death.

Common allergens include:

Cereals	Eggs	Seeds
Soya	Fish and shellfish	Strawberries
Peanuts	Wheat	Milk and dairy
Celery	Tree nuts	Mustard



Symptoms and signs of food-induced ill-health:

An "upset tummy" is a familiar symptom for someone who thinks they might have food poisoning; this is known as a non-visible symptom. There are many other signs and symptoms that could show that a person might be suffering from ill-health due to the food they have eaten. Some of the symptoms can be seen (visible symptoms) such as a rash. It is important to be able to recognise visible and non-visible symptoms to help someone suffering from food-induced ill-health.

Visible symptoms

Visible symptoms of food poisoning, chemical poisoning, allergic reaction and food intolerance include:

- Diarrhoea: a common symptom of most types of food poisoning bacteria and can also be a symptom of lactose intolerance.
- Vomiting: a common symptom of most types of food poisoning bacteria, but may could also be caused by taking in chemicals accidently added to food.
- Pale or sweating/chills: a high temperature is a common symptom of E-coli and Salmonella.
- Bloating: a symptom of lactose intolerance.
- · Weight loss: a symptom of gluten intolerance (coeliac disease).

Allergic/anaphylactic reaction

- Visible symptoms: red skin, a raised rash, vomiting, swelling of lips and eyes and difficulty breathing.
- Non-visible symptoms: swelling of tongue and throat, nausea (feeling sick) and abdominal pain.
- Anaphylaxis: a severe reaction to eating an allergen that can lead to death. An injection of adrenaline (for example, an EpiPen) is the treatment for an anaphylactic reaction.

Non-visible symptoms

Non-visible symptoms of food poisoning, chemical poisoning, allergic reaction and food intolerance include:

- Nausea (feeling sick): the most common symptom for all types of food-induced ill-health.
- Stomach-ache/cramps: abdominal pain is common symptom of lactose intolerance as well as a sign of an allergic reaction. Cramps may happen at the same time as diarrhoea.
- · Wind/flatulence: a common symptom of lactose intolerance.
- · Constipation: a symptom of Listeria food poisoning.
- · Painful joints: a symptom of E-coli food poisoning.
- Headache: a symptom linked to Campylobacter, E-coli and Listeria.
- Weakness: non-stop vomiting, and diarrhoea can leave a person feeling weak. Gluten intolerance (coeliac disease) can leave a person feeling tired because their bodies can't absorb the correct amount of nutrients.

Level 1/2 Hospitality and Catering:

Unit 1-1.4.3: Preventative control measures of food-induced of ill-health



Preventing cross-contamination

Food poisoning bacteria can easily be transferred to high-risk foods. This is called cross-contamination. It can be controlled by:

- washing hands before and after handling raw meat and other high-risk foods.
- using colour-coded chopping boards and knives when preparing high-risk foods.
- washing hands after going to the toilet, sneezing, or blowing your nose and handling rubbish.

Preventing physical contamination

Physical contamination is when something which is not designed for eating ends up in your food. Physical contaminants include hair, seeds, pips, bone, plastic packaging, plasters, broken glass, flies and other insects, tin foil and baking paper, soil, and fingernails.

Physical contamination can be controlled by:

- · food workers following personal hygiene rules
- · keeping food preparation and serving areas clean
- checking deliveries for broken packaging
- · thoroughly washing fruits and vegetables before preparation
- · using tongs or gloves for handling food.

Temperature control				
Delivery	Storage	Preparation	Service	
The temperature of high-risk foods must be checked before a delivery is accepted. The food should be refused if the temperatures are above the safe range. Refrigerated foods = 0-5°C Frozen foods = -22°C to -18°C	High-risk foods must be covered and stored at the correct temperature. Temperatures must be checked daily. Refrigerator = 0-5°C Freezer = -22°C to -18°C Unwashed fruit and vegetables must be stored away from other foods.	High risk-foods need to be carefully prepared to avoid cross-contamination. A food probe can be used to make sure that high-risk foods have reached a safe core (inside) temperature, which needs to be held for a minimum of two minutes. Core temperature = 70°C	Food needs to be kept at the correct temperature during serving to make sure it is safe to eat. Hot food needs to stay hot and cold food needs to stay chilled. Hot holding = 63°C minimum Cold holding = 0-5°C	





Role of the Environmental Health Officer (EHO)

The role of the Environmental Health Officer (EHO) is to protect the health and safety of the public. They are appointed by local authorities throughout the UK. In the hospitality and catering industry, they are responsible for enforcing the laws linked to food safety. They inspect all businesses where food is prepared and served to members of the public, advise on safer ways of working and can act as enforcers if food safety laws are broken.

EHO inspection:

The EHO can carry out an inspection of any hospitality and catering premise at any time during business hours – they do not need to make an appointment. During an inspection, the EHO will check to make sure that:

- · the premises are clean
- · equipment is safe to use
- · pest control measures are in place
- · waste is disposed properly
- · all food handlers have had food hygiene and safety training
- all food is stored and cooked correctly
- · all food has best-before and use-by dates
- · there is a HACCP plan to control food hazards and risks.

The EHO is allowed to:

- · take photographs of the premises
- take food samples for analysis
- check all record books, including fridge and freezer temperatures, cleaning schedules and staff training
- · offer advice on improving food hygiene and safety in the business.

EHO and the law

If the EHO discovers problems with the food safety and hygiene in the premise, they are allowed by law to:

- · remove any food that may be hazardous so it can't be sold
- tell the owners to improve hygiene and safety within a set time and then come back and re-inspect
- · close the premises if there is a risk to health of the public
- give evidence in a court of law if the owners are prosecuted for breaking food hygiene and safety laws.

Complaints by the public

The EHO will immediately investigate any complaints of suspected food poisoning linked to a particular premise.

Hygiene ratings

When an inspection has been carried out, the EHO will give the business a food hygiene rating. The ratings are published on the Food Standards Agency website as well as on stickers displayed at the business. A rating of 5, or very good, represents the highest standard of food hygiene.

MUSIC

Component 2: Music Skills Development

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earners will explore	A1 Professional skills for	A2 Planning and communicating music skills development
Learners will explore professional techniques for musicians and look at how musicians share their music with others. They will learn o use a variety of methods of evidencing processes and outcomes and communicating skills development.	A1 Professional skills for the music industry • Learners will explore the expectations and professional skills required to succeed in the industry: o time management o self-discipline o working with others o correct and safe use of equipment o identifying resources required o auditing existing skills and maintaining a development plan.	 A2 Planning and communicating music skills development Planning development processes. Strategies for skills development. Managing equipment and resources. Methods of capturing musical development, such as: digital or traditional portfolios, including studio track sheets, production notes, rehearsal diaries, screenshots, key milestone performances and reviews from others o recorded auditions o compositional sketches o raw recordings o drafts o application of effects o initial mixes. Having a clear and organised approach to communicating: o key points in the process are referenced and in a logical order o images, videos and recordings are clear o written commentary supports the quality of work. Sharing and commenting on work: o social media, e.g. Soundcloud TM, FacebookTM, YouTubeTM o jam sessions, improvisation sessions, mixtapes, demos, sharing samples, remixing and reworking, white label, remote collaboration.

Learning outcome B: Apply development processes for music skills and techniques			
Learners will participate in workshops and sessions to identify and develop musical skills and techniques in the following three disciplines: 1. Music performance 2. Creating original music 3. Music production. They will then select and develop their individual musical and professional techniques appropriate to context and style and demonstrate the application of these skills and techniques in the creation of musical outcomes across two of the three disciplines.	B1 Development of technical music skills and techniques • Development processes: o individual development routines o identifies technical exercises for development o includes setting goals o includes monitoring and tracking of progress.	B2 Development of music skills and techniques • Developing musical skills appropriate to style and context, such as: • timing and phrasing • using rhythm and pitch in the creation or recreation of music • using equipment, instrumentation or software appropriately • expression • combining instruments/sounds • health and safety in the use of equipment and/or instruments. • Applying skills development to the creation of content/material: • creative intentions • skills needed • stylistic accuracy • creation of content/material. • Music performance: • tuning (if appropriate) • learning repertoire • physical preparation and exercises • instrumental or vocal technique • practise routines such as scales, etc. • following accompaniment • stage presence. • Creating original music: • exploring and extending ideas • using structure effectively • using software instruments • development of harmony. • Music production: • using software instruments • using audio and software tools • manipulation techniques <tr< td=""></tr<>	

Oxford Cambridge and RSA

Year 10 Cambridge National in SPORTS STUDIES –

Cycle Three Knowledge Bank

Skills and Techniques



	Classification of Skills – Open and Closed	Closed	•	Open
Open	These are skills that are affected by the environment. These occur when performers have to make decisions and adapt their skills to a changing or unpredictable environment. The performer is not in control of what will happen next. An example would be making a pass in Ultimate Frisbee.	A diver is in complete control of the rate and timing of their performance	A wheelchair racer needs to be aware of racers in other lanes and adapt to the track conditions	A basketballer must perceive and respond to the ball, their team and the opposition - all at once
Closed	These are skills that are not affected by the environment. They are usually self-paced and occur in fixed or predictable situations. The performer uses exactly the same technique every time and is in control of what happens next. An example would be a gymnast performing a floor routine.	Baka 2015	0	

Definition – Techniques are the execution or performance of a particular procedure₅₃

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Definition – Skills are having an ability to do something well or with expertise

OXFOR Cambridge and RSA

Year 10 Cambridge National in Sports Studies – Cycle Three Knowledge Bank



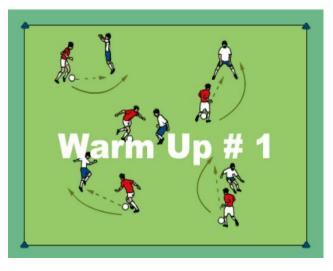
Cambridge Nationals

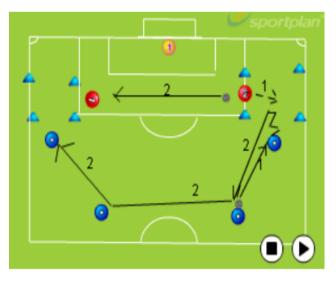
C	lassification of Skills – Complex and Simple	Simple	•	Complex
Complex	These are skills where the performer doesn't have to process much information or make many decisions. The skill has only a small number of parts (or sub-routines) and doesn't require much feedback during its performance. An example of a simple skill is sprinting	Running with the ball in a straight line in rugby union is a relatively basic skill	Kicking a penalty or conversion is more complex	Being able to scrummage safely and effectively is a complex skill requiring multiple judgements and decisions
Simple	These are skills where the performer has to process lots of information and make lots of decisions. The skill has many sub- routines (or parts) to it and requires a lot of feedback during its performance. An example of a complex skill is a tennis serve.			
D	efinition – Skills are having an ability to do	Definition –	Techniques are the	e execution

something well or with expertise

Definition – Techniques are the execution or performance of a particular procedure







Year 10 Cambridge National in Sports Studies – Cycle Three Knowledge Organiser

Leadership Session Planning	
Leadership Session Component	

Learning Outcomes	Knowing how to performDoing the performing
<mark>Warm Up</mark>	 Pulse Raiser Stretches Skill Related Activity
<mark>Drills</mark>	 Activities that focus on the target skill you are leading e.g Passing in Football
<mark>Main Activity</mark>	 Longer activity which focuses on target skill you are leading e.g Possession Netball
<mark>Cool Down</mark>	 Reducing Heart Rate Stretches
<mark>Plenary</mark>	What went well?Even better if?









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Speak to your Head of House or Pastoral Manager