KNOWLEDGE ORGANISER



Name:

Form:

CONTENTS

How to use your Knowledge Organiser	1
Home Learning Plan	2
English	6
Maths	9
Science	12
Computer Science	15
Ethics	16
French	17
Geography	19
History	21
Spanish	24
Art	28
Business Studies	29
Drama	33
Health & Social Care	35
Music	36
Sport	37
Careers	39
Where To Find Help	40



How to use your Knowledge Organiser for Home Learning

- Knowledge Organisers contain critical core knowledge that you must know
- It will help you recap, revisit and revise the **core knowledge** that you have learnt in lessons, so that you remember it in the long term
- You will use your Knowledge Organiser for most of your homework, but you can also do extra self-study to develop your long term memory
- You MUST have your book with you every day and in every lesson as it will be used alongside your learning

For homework:

- You will need to use the Knowledge Organiser for some of your Home Learning
- You will be asked to look at a specific section of your Knowledge Organiser
- Your homework from the Knowledge Organiser will be to learn the core knowledge set by your teacher. This will then be tested in your lessons

This should take about 15 mins per subject for Year 7, 8 & 9. Year 10 & 11 will be longer (set by the teacher)

- You will have a home learning book to use for your home learning
- You must write the subject and date in your homework book
- You need to underline the subject and title as per lessons
- The knowledge learnt will be assessed during your lessons There will be rewards for excellent work and sanctions for work not completed



HOME LEARNING PLAN:

- Your homework will be set **every Monday** on Class Charts
- Your homework book will be checked by your teacher where it has been asked to be used for your home learning (not all subjects)
- You can use highlighted notes, mind-maps, diagrams, flashcards to learn your **core knowledge**
- The section of homework you need to learn from your Knowledge Organiser will be on Class Charts as normal
- There will be a detention set by your teacher for not completing your home learning. If you fail to attend this detention, you will be in a detention on **Thursday evening** to complete your work
- You will be tested on what you have learnt by your subject teachers in your lessons (date will be on Classcharts)
- 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	instrument/composition/production skill sets. completing effectiver rehearsal/production/compositi developm		Self-reflection of rehearsal effectiveness/composition development/production development.
Ethics	30 min P/w	Seneca, Making retrieval quizzes, Cornell Notes .		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	Revision activities and exam practice	Seneca	Seneca is self marking
Sports Studies	45 minutes	Revision activities and Retrieval quizzes set to challenge weekly exam content retention	Google Classroom via use of Google Forms	Self marked or checked via Google Classroom.
Construction				
Engineering				

ENG	ENGLISH Macbeth Knowledge Organiser (GCSE English Literature – AQA)					
Scene	Plot and character	Symbols	Quotations	Vocabulary	Historical context	
1 1	Three witches meet and plot against Macbeth, who is currently leading the Scottish army in a battle against the Norwegians.	Storm : the witches' power over nature. Also foreshadows chaos. Fog: creates an ominous mood, reinforcing the witches' ambiguous nature. Could represent Macbeth's inability to see the righteous path.	1. Witches: "Fair is foul and foul is fair: / Hover through the fog and filthy air."	 A. <i>Ambiguous</i>: more than one interpretation B. <i>Enigmatic</i>: mysterious, hard to understand C. <i>Malevolent</i>: evil D. <i>Trochaic tetrameter</i>: an unnatural rhythm, 8 syllables per line (stressed/unstressed) E. <i>Inevitability</i>: an event cannot be prevented 	Witchcraft : Most Jacobeans (17 th C) believed in witches; witch-hunting and execution was common. King James I wrote a book called <i>Daemonologie</i> in which he supported and encouraged the trials of witches, who he believed were controlled by the devil.	
1.2	Duncan learns that Macbeth and Banquo have won the war. Macbeth has decapitated the Scottish traitor, Macdonwald. Another traitor (the Thane of Cawdor) will be executed.	<i>Macdonwald's decapitated head:</i> this symbolises the consequences of treachery. The fact that Macbeth severs Macdonwald's head indicates Macbeth's loyalty to King Duncan.	 Captain: "Unseamed him from the nave to the chops." Duncan: "O valiant cousin!" 	 F. Tragic hero: a noble person of high rank whose error in judgement leads to downfall G. Virtuous: moral; having good qualities H. Patriotic: loyal to one's country I. Courageous / valiant: brave J. Relentless bloodlust: desire for bloodshed 	Hypermasculine Society: exaggerated expectations of "male" behaviour. Men need to show courage on the battlefield: society celebrates violence used in the service of the king. For Macbeth, this mentality is difficult to change in peace-time.	
A c t 1 1 . : 3 E x 1	Macbeth and Banquo meet the witches, who prophesy that Macbeth 2 Thane of Glamis, Thane of Cawdor, King. Banquo's son 2 king	<i>Wasteland setting:</i> the witches exist outside of civilisation; they are wild, dangerous and unknowable.	 Banquo: "to win us to our harm / The instruments of darkness tell us truths." M: "This supernatural soliciting / Cannot be ill – cannot be good." 	 K. <i>Hubris:</i> excessive pride and arrogance L. <i>Hamartia</i>: a fatal flaw in a protagonist's character that leads to his/her downfall M. <i>Credulous:</i> believes others easily N. <i>Soliloquy:</i> a speech to the audience – other 	Fate versus Free Will: Jacobean Christians debated whether mankind was fated (pre- destined) to go to heaven or hell, or whether they had free choice. Was Macbeth fated to commit horrific deeds, or did he choose to	
p 1 0 4	Malcolm will be Duncan's heir.		6. M: "my black and deep desires."	characters do not hear this	do it out of free will?	
s i t i 1 o 7 5	Macbeth has sent Lady Macbeth a letter explaining what the witches have said. She calls on the spirits to "fill" her with "direst cruelty". Macbeth arrives and they plot.	<i>Milk</i> : feminine symbol of compassion. LM rejects this, asking the spirits to replace milk with poison (death and destruction). <i>Flower:</i> innocent, fragile, natural – being "fair". <i>Serpent:</i> Biblical allusion to the "foul", malevolent devil.	 ZM: M is "too full o' the milk of human kindness." ZM: "unsex me here". LM: "I feel now / The future in the instant." LM: "Look like the innocent flower, but be the serpent under it." 	 O. Power-hungry: desiring control P. Ruthless / callous: having or showing no mercy to others. Q. Unconventional: acting in a way which is different to the stereotype R. Imperative verbs: command verbs S. Blank verse: 10 syllables per line (unstressed/stressed). No rhyme. 	Patriarchal societies: Men dominate and women are subservient; they are expected to obey male relatives and are regarded as the weaker, inferior sex. Women are denied the same rights and privileges as men. However, Queen Elizabeth I had been on the throne until her death in 1603, suggesting that in some situations women could hold power.	
1 6	Lady Macbeth welcomes Duncan to her castle.		11. Duncan: "Our honoured hostess."	 T. Façade: the appearance of honesty U. Benevolent: kindness and generosity 	<i>The Ideal King:</i> kings needed integrity, loyalty to their people, and godliness.	
1 7	Macbeth equivocates, doubting whether or not he can commit the murder. Lady Macbeth persuades him by questioning his masculinity.	Spurs: spikes used to push a horse faster. Macbeth needs a "spur" to propel him to realise his ambition to be king; he admits that he would not murder Duncan without another force (LM? The witches?).	 12. M: "Vaulting ambition, which overleaps itself." 13. LM: "Screw your courage to the sticking-place / And we'll not fail." 14. LM: "When you durst do it, then you were a man." 	 V. <i>Equivocating</i>: to avoid committing yourself, or saying one thing but meaning another W. <i>Doubtful</i>: unsure. X. <i>Emasculated</i>: made to feel weaker / masculinity is threatened 	Machiavellianism: writer Niccolò Machiavelli advocated using intelligence and cunning – not brute force – to gain power. Shakespeare explores the consequences of this ideology: what happens when a Machiavellian character gains power?	
A c 2 t . 2 1 : R	Macbeth meets Banquo on the way to Duncan's chamber. Alone again, he sees a mysterious dagger leading him to the murder.	<i>Diamond:</i> Duncan gave this to LM, emphasising the betrayal. <i>The dagger:</i> it could be the witches leading Macbeth to the murder. Or, it could represent guilt.	 M: "heat-oppressed brain". M: Duncan's "virtues will plead like angels." 	 Y. Afflicted: suffering greatly, deeply troubled Phantasmagorical: having a shifting or deceptive appearance, like a dream AA. Regicide: the act of killing a king BB. Usurp: to take a position of power illegally 	<i>The Divine Right of Kings:</i> The belief that monarchs were appointed by God and had absolute power over their people, being answerable only to God. <i>The Great Chain of Being:</i> The belief that	
r i s 2 i . n 2 g	Macbeth meets Lady Macbeth, who becomes angry as he still has the daggers. She plants them on the drugged guards and they go to bed.	Blood: inescapable guilt. Water: connected to Christian baptism: washing away one's sins. Macbeth thinks he will never cleanse his conscience.	 M: "Will all great Neptune's ocean wash this blood / Clean from my hand?" LM: "A little water clears us of this deed." 	 CC. <i>Remorse:</i> guilt, regret DD. <i>Dread / apprehension:</i> fear, anxiety, horror EE. <i>Elision:</i> an event is not shown on stage. <i>Duncan's murder is elided.</i> 	God had designed an ordered system for everything in the universe within which every creature and person had an allotted place. It was an offence against God for anyone to try to alter their station in life.	

A c t i o n	2 3 2 4	The Porter answers the gate to Macduff, who discovers the murder. Macbeth kills Duncan's guards, blaming the murder on them, and Macduff becomes suspicious. Duncan's sons flee. Macduff discusses Macbeth being made King. Macduff doesn't attend the coronation.	The gate: the gates of Macber castle are like the gates of hel opening of the gates symbolis how Scotland has now been plunged into a hellish state of horror and chaos. Nature: order and righteousn the world. Yet here, natural cl reflects moral and political ch	I. The es 20. M: "His silver skin laced with his golden blood." 21. Old Man: "Tis unnatural, / Even like the deed that's doep "	FF. <i>Dismayed / distraught:</i> discouraged, upset GG. <i>Tyrannical:</i> a leader who uses power unfairly and for their own purposes. HH. <i>Disorder:</i> chaos	Fear of Tyranny: When James became King in 1603, many people feared that he would not be benevolent; many previous kings had been tyrannical. A group of Catholic rebels planned the Gunpowder Plot in an attempt to assassinate James. "Macbeth" has been interpreted as a warning to King James I to avoid becoming a tyrant, as the consequences of this are disastrous.
Sc	ene	Plot and character	r development	Symbols	Quotations	Vocabulary
	3 1	Banquo recalls the witches' proph to a banquet that night, but secre Banquo poses to his safety. Macb	etly ponders the threat	<i>Fruitless crown:</i> Macbeth regrets his childlessness; there will be no dynasty of kings.	 Banquo: "I fear / Thou play'dst most foully for it." M: "a fruitless crown." 	
A c t 3 :	3 2 - 3 3	Macbeth discusses his troubles with Lady Macbeth: he is unhappy that others may suspect the truth. He refuses to tell Lady Macbeth that he has arranged Banquo's murder. Outside the castle, the murderers kill Banquo, but Fleance escapes.		<i>Snake:</i> threats to Macbeth's kingship and absolute power. A Biblical allusion to the devil; Macbeth sees these threats as evil.	 24. LM: "Tis safer to be that which we destroy, / Than by destruction dwell in doubtful joy." 25. M: "Full of scorpions is my mind, dear wife." 26. M: "Be innocent of the knowledge." 	II. Corrupt : dishonest, deceptive, immoral
C I i m a	3 4	Macbeth hosts a feast. He discovers Banquo is killed, butThFleance lives. Macbeth sees Banquo's ghost and appears to have a fit. Lady Macbeth tells the guests her husband isre		The banquet : should symbolise Macbeth's power, but as it deteriorates into chaos it represents his illegitimate kingship and unbalanced state of mind.	 M: "I am cabin'd, cribb'd, confined, bound in / To saucy doubts and fears." M: "Never shake / Thy gory locks at me." M: "I am in blood / Stepped in so far" 	JJ. Plagued / tormented : worried, haunted, afflicted by an idea
×	 X 3 5 - -				death and their suspicions of Macbeth. Macduff goes t	o England for help.
A c t 4	4 1	Macbeth visits the Witches and is o <i>armed head:</i> to beware of Mac o <i>crowned child with tree:</i> Macbe	duff o bloody child: no ma	an born of woman can harm Macbeth noves o <i>line of kings:</i> Banquo's heirs	30. M: "How now, you secret, black and midnight hags!"	
: F a	4 2	Macbeth sends murderers to Mac Macduff has already gone to Engl		<i>Innocent victims</i> : represent the depths of Macbeth's malevolence.		KK. Pathos: a feeling of pity
l i n g A c t i o n	4 3	 Macduff discovers his family have been killed. He rounds up the English armies ready to take revenge 			31. Macduff: "an untitled tyrant bloody-sceptered." 32. Macduff: "I must also feel it like a man."	LL. <i>Integrity</i> : making right decisions MM. <i>Distraught:</i> extremely upset NN. <i>Vengeance:</i> punishment
A c t 5	5 1	Lady Macbeth sleepwalks, acting	out washing her hands.	Hand-washing: a desperate attempt to wash away guilt	 33. LM: "Out damned spot! Hell is murky!" 34. LM: "All the perfumes of Arabia will not sweeten this little hand." 35. LM: "What's done cannot be undone." 	OO. <i>Deranged:</i> mad, irrational PP. <i>Vulnerable:</i> weak, threatened QQ. <i>Prose:</i> speech with no rhyme or rhythm. 7

: 5 D . e 2 n - o 5 u . e 4	 Macbeth boasts that he has nothing to fear. Yet Macduf Malcolm's army approaches and Macbeth puts on his ar The army use branches off trees as camouflage 4 						
m 5 e . n 5 t -	Macbeth hears that Lady Macbeth is dead – we assume suicide. Macbeth is terrified to learn that the wood is sta to move. The battle commences outside the castle. Mac strikes everyone he can see, suddenly afraid of nothing.	ed to learn that the wood is starting vulnerability of life.		and	 36. M: "She should have died hereafter." 37. M: "Tomorrow, and tomorrow, and tomorrow." 38. M: "Out, out, brief candle." 		 RR. <i>Nihilistic:</i> a profound sense of the meaninglessness of life and morality SS. <i>Defiant:</i> resisting or fighting against another power
<u>با</u> ع	"born of woman" but through caesarean section. Macdu	ection. Macduff body is physically distorted to re		eflect his	 Macduff: "Behold the usurper's curse Malcolm: "This dead butcher and his fi queen." 		TT. Anagnorisis: a moment of realisation UU. Downfall: the tragic hero's destruction VV. Nemesis: an arch-enemy
	Big ideas: characters				Big idea	s: themes	
"inst over own <u>Mac</u> show on se <u>Lady</u> posit her c <u>King</u> – he a sta	supernatural world: Shakespeare uses these truments of darkness" to cast a shadow of malevolence the play. It is ambiguous whether Macbeth acts of his free will or whether he is the victim of the supernatural. Ebeth, the tragic hero: Shakespeare uses Macbeth to w the destructive consequences of unchecked ambition ociety, family, and one's own psychological state. Macbeth: Lady Macbeth's manipulation of her husband tions her as the catalyst of his downfall. Like Macbeth, death serves as a warning against unchecked ambition. Duncan: Whilst Duncan may appear to be the ideal king is benevolent, virtuous, and godly – his death serves as ark warning to King James I: leaders should not be overly ting, as this can lead to disaster.	Makespeare uses these to cast a shadow of malevolence bus whether Macbeth acts of his e is the victim of the supernatural.Malcolm: Samodel for the ideal king: he is benevolent, virtuous, courageous in battle, and also cautious in trusting others.point ordShakespeare uses Macbeth to equences of unchecked ambition 's own psychological state. Malcolm: Malcolm is a model for the ideal king: he is benevolent, virtuous, courageous in battle, and also cautious in trusting others.point ordBanquo: A character foil for Macbeth, Banquo represents the righteous path the tragic hero should have taken. Banquo is also tempted by the witches, but he remains loyal to the King; he symbolises integrity.guMacduff: Macduff: Macduff is the archetype of the avenging hero, who does not want vengeance for its own sake, but wishes to restore order and morality to Scotland.AmAppendix Determine disaster.Am		power. He r order to obt <u>Ambition</u> : S the consequent that it can n grows into a gives into it <u>Guilt</u> : Shake Despite the their guilt, S take hold ar consequence <u>Appearance</u> people and Appearance	Assessmeare exposes the corrupting effect of eveals the lengths people will go to in an power and hold on to it. hakespeare crafts a cautionary tale about rences of unchecked ambition. He implies ever be fulfilled and therefore quickly monster that will destroy any-one who speare conveys the inescapability of guilt attempts of some characters to suppress hakespeare shows how it will inevitably and individuals must suffer the es of their actions. Es: Shakespeare suggests that often events are not truly as they seem. s can be deceptive and the reality behind n dark and unpleasant.	lesson: kil punishme potential i <u>Fate and j</u> consider t destinies. alone resp choose his <u>Gender</u> : S norms sur power in a against th Shakespea restricting desire to g Alternativ	free will: Shakespeare asks his audience to he extent to which we control our own Is it Macbeth's fate to be a traitor or is he ponsible for his actions, and did he freely

MATHS Maths Homework

All maths homework will be set on <u>Sparx</u>. Students can login by pressing "login with google" when they are on their school logins.

The homework will contain the following components:

- **consolidation** of the learning completed in the week;
- 'flipped learning', where student will investigate work to be completed in class later;
- **retrieval** of previous learning, to practise bringing previously learned skill back into working memory;
- and **revision** for in-class tests.

We will use Sparx for revision for termly tests and support at home (using the curriculum maps on the maths section of the website).

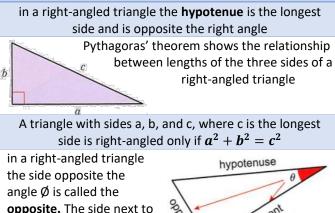
Homework is every week. We offer homework help once a week at lunch on a Tuesday. Students can, of course, talk to their teachers any time they like to ensure they complete homework to 100%.

If a student completes all their homework in a year, they will have done the equivalent of 10 weeks of extra maths lessons every year.

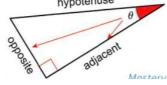
Maths Year 10

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

 $X \propto \frac{1}{v}$ 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

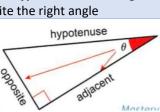
Two triangles are **congruent** when one of these conditions of congruence is true: **SSS**: all three sides are equal **SAS**: Two sides and the included angle are equal **AAS**: Two angles and a corresponding side are equal **RHS**: Right angle, hypotenuse and one other side are equal

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

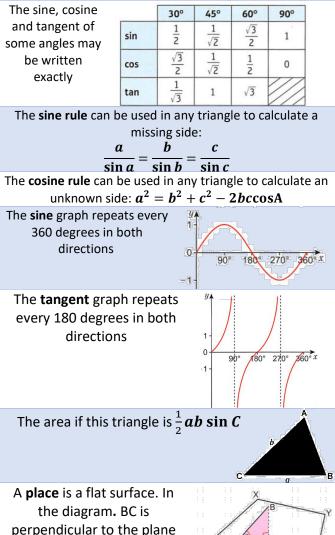
in a right-angled triangle the side opposite the angle \emptyset is called the **opposite.** The side next to the angle \emptyset is called the **adjacent**.



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

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.



Ø is the angle between the line AB and 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,

WXYZ. Triangle ABC is in a

plane perpendicular to the

plane WXYZ

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

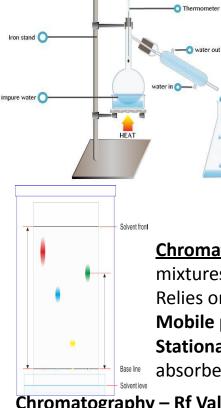
The interquartile range (IQR) is UQ - LQ A box plot (sometimes called a box – and – whisker diagram, displays a data set to show the median and quartiles. Comparative box plots are box plots for two different sets of data drawn on the same scale.

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.

11

Year 10 - Science Knowledge Bank - Spring Term (Chemistry)



Distillation – Used to separate liquids that have different boiling points.

Filtration - used to separate particles of insoluble solids from a solvent (liquid). The particles get stuck in the filter paper.

Crystalisation – Used to produce solid crystals from a solution. When the solution is warmed, the solvent evaporates leaving behind a more concentrated solution

Chromatography – A separation technique used to separate mixtures of soluble substances.

Relies on two phases

Mobile phase – solvent in the liquid phase

Stationary phase – the chromatography paper which is

absorbent

Chromatography – Rf Values

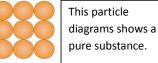
Rf = Distance Travelled by Substance **Distance Travelled by Solvent** Remember there is no units for Rf, and the figure you calculate should not be over 1.

Law of conservation of mass - No atoms are lost or made in a chemical reaction. Instead,

the atoms join together in different ways for form products, this is why, in a balanced symbol equation, the number of atoms of each element is the same on both sides.

Pure and Impure Substances – Something 'pure' as a chemical that is natural. This is a substance that is made up on one type of atom. If there is more than one type of atom,

then that substance is called 'impure'.

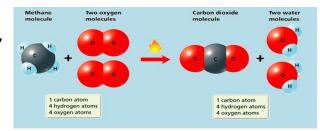


This particle diagram shows an impure substance.



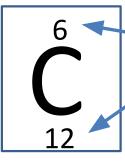
Substances can be tested to find out if they are pure. You can test melting points, boiling points or density. The more impurities that are added to the substance, the more the above will change.

Conservation of mass



Year 10 - Science Knowledge Bank - Spring Term (Chemistry)

Relative formula mass (RFM)



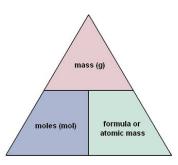
This is the atomic number (number of protons)

This is the atomic mass (number of protons and neutrons)



The relative formula mass is the **total** mass of the all the atoms in a molecule.

Avagadros constant and the mole - The number of units ir one mole of any substance is called Avogadro's number or Avogadro's constant. It is equal to 6.02×10²³



Mole Calculations

There is a relationship between the **relative formula mass** (M₂), and the mass of one mole of a substance:

The mass of 1 mol of a substance is its *RFM* in grams (g).

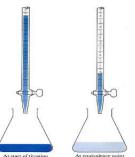
Moles and Concentration Concentration

"The relative amount of a particular substance contained within a solution or mixture or in a particular volume of space."

Concentration = Mass of solute Mass of solvent

calculated using the following triangle:

Concentration = g/dm^3 moles Concentration in moles/dm³ (molarity, M) can be vol conc g dm⁻³



Titration

A titration is a laboratory technique used to determine the concentration of a solution by gradually adding a known concentration of another solution until a reaction is complete. You calculate concentration using the equations above.

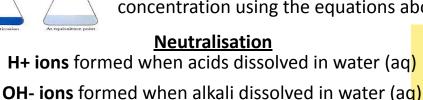
NEUTRALISATION

dm³

Neutralisation

 H^+ (aq) + OH^- (aq) $\rightarrow H_2O(I)$

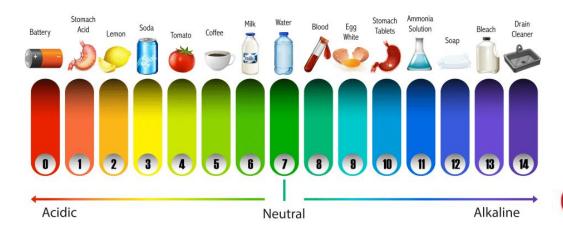
Acid + Alkali Salt + Water



Year 10 - Science Knowledge Bank - Spring Term (Chemistry)

pH Scale

A scale which shows you how acidic or alkaline something is. You can test this with a pH meter, Universal indicator or Litmus. This is a logarithmic scale and each value below pH7 is 10 times more concentrated.



Acid strength and concentration

Strong acids dissociate completely in water producing higher concentrations of H+ ions Weak acids do not dissociate completely producing lower concentrations of H+ ions.

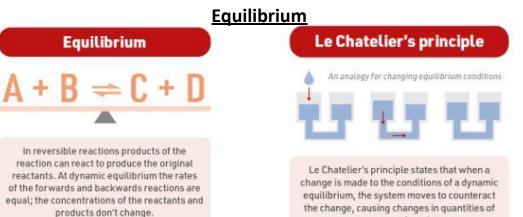
Factors affecting Rates of Reaction

The rate of reaction tells you how fast reactants turn into products.

Four main factors affecting rates of reaction, **Temperature**, **Pressure**, **Surface area and Concentration**



Catalysts also affect rate of reaction by providing an alternative reaction pathway lowering activation energy, they speed up rates of reaction without being used up. Catalysts can be chemical (Potassium Iodide) or biological (enzymes).



reactants and products.

COMPUTER SCIENCE

Knowledge Organiser 3 : Data Storage

1. Data	units	5	2. Conversions			
Bit (b)		The smallest unit of data. 0 or 1	Binary to Denary			
Nibble (N)	4 bits	Denary to Binary			
Byte (B)		8 bits (note the difference between b and B)	Hexadecimal to Denary			
Kilobyte (I	<b)< td=""><td>1000 bytes. Note KB is different from Kb</td><td>Denary to Hexadecima</td></b)<>	1000 bytes. Note KB is different from Kb	Denary to Hexadecima			
Megabyte	e (MB)	1000 KB	Binary to Hexadecimal			
Gigabyte	(GB)	1000 MB	Hexadecimal to Binary			
Terabyte (TB)	1000 GB	Left Binary Shift			
Petabyte (PB)	1000 ТВ	Right Binary Shift			
3. Oper	ration	15				
Binary addition	colun	hould arrange the two binary numbers above ended and the start on the rightmost digit and address, write them down next to the next left column	d them. If there are any			
Overflow	and it	the answer to the left column results in a carry, this is known as an overflow nd it causes an overflow error. This can cause problems if a computer rogram hasn't been written to handle overflows.				
Left Binary Shift	the va	lake the number longer, and therefore bigger. Each place it shifts will double the value. A binary left shift of one place (<<1) will double the value, a binary ft shift of two places (<<2) with quadruple.				
Right Binary Shift	forge	lake the number shorter, and smaller. The right most digit is "lost", so we orget about it. A binary right shift of one place (written as >>1) halves the umber, and a binary right shift of two places (>>2) will quarter it.				
7. Soun	d					
Analogue / Analogue sound waves must be converted into digital sound waves Digital taking a sample of the sound at set intervals. This is because comput only work with digital 'numbers', and not analogue 'sound'			is because computers car			
Sample rate Nu		Number of times analogue signal is sampled per second. Measured in Hertz				
Bit depth Number of bits used per sample. Sometimes known as			wn as sample resolution			
File size	Sa	mple rate x sample resolution x seconds				
Factors	im	rger sample rate and/or bit depth will make the prove the playback quality; and vice versa. Also e recording longer will make the file size bigger	o, making the duration of			

4. Charae	rtors			
Individual Ead		Each character is assigned an individual binary code to represent it. The number of bits depends on the 'encoding' used		
Character S	et	The name given to a collection of characters matching to binary codes. There are many examples.		
Choice of Character S	et	A character set encoded with more bits allows more characters. This is useful for accents, symbols, emojis, other languages (e.g. Chinese)		
5. Examp	oles of	Character Sets		
ASCII	7-bits to	p represent characters allowing 127 characters to be represented		
Unicode		/ 32 bits. Covers many modern and historic languages, as well as lots pols which are used in maths and other specialist areas		
6. Image	S			
Pixel	The sm	allest element of a bitmap image. Pixels desk		
Vector vs Bitmap	A vector image describes the lines and shapes. A bitmap image consists of rows of coloured dots.			
Colour Depth	The number of bits used to represent each pixel in a bitmap image. An 8 bit image can show 2 ⁸ or 256 colours.			
Resolution	In a bitmap image resolution is measured in DPI (dots per inch). The higher the resolution the better the picture quality			
Metadata	Data that is saved before and after the image to tell the computer how to decode the image. It includes the size in pixels (width x height), the colour depth, the resolution, the GPS location of where the image was taken, etc.			
lmage size	The size	e of an image is width x height x colour depth (+10% for metadata)		
Factors	Greater colour depth and/or greater resolution will make the file size bigger, and improve the quality of the image; and vice versa			
8. Compi	ression			
Compression		Compression is when a file is encoded so it uses fewer bits than the original file format		
Lossless compression		Gets rid of unnecessary data to re-present data without losing any information. This process is reversible		
Lossy comp	ression	Gets rid of the least essential data. This is an irreversible processonce data is lost it can't be recovered15		

		Ethics GCSE Religion, Peace and Conflict: Knowledge	Organiser
Import	ant Key words to remember	Key beliefs	Key beliefs
War	Fighting between nations to resolve issues between them	1. War as conflict is a way of resolving differences. The intention to fight is often to create peace once the war is over as war is expensive and not	11. Holy Wars are fought in defence or in promotion of a religion. Muslims have rules as to how a Holy War should be fought. In the Old Testament wars
Justice	Bringing about what is right and fair, according to the law, or making up for a wrong that has been committed.	sustainable. Islam is Arabic means 'salam' or peace. 'As-salamu alaikum' means 'peace be with you'.	were fought to gain the Promised Land where the Jews would eventually live. The teachings of Jesus, however, make it quite clear that the use of violence is not justified.
Peace	An absence of conflict, which leads to happiness and harmony	2. Justice, forgiveness and reconciliation strongly link to one another. All are needed for peace to occur.	12. Pacifism is considered an alternative to conflict. Organisations such as the Muslim Peace Fellowship and the Anglican Pacifist Fellowship all promote
Forgiveness	Showing mercy and grace and pardoning someone for what they have done wrong	'Just' is one of 99 names of Allah. The Bible speaks of God showing justice and forgiveness, thus Christians should show the same.	pacifism. Islam is a religion of peace, although the duty of jihad makes it difficult for Muslims to identify with it.
Reconciliation	The restoring of harmony after relationships have broken down	3. The UK law considers protest to be a right and part of citizen's democratic freedom. The rules: police must know 6 days in advance,	13. Both Islam and Christianity work to help the victims of war. Islamic Relief, Muslim Aid, Caritas and Christian Aid are examples of present day
Protest	An expression of disapproval, often in a public group	police can alter the route or apply for a ban if possible violence.	organisations. They provide financial help to widows and orphans as well as rehabilitation.
Violence	Using actions that threaten or harm someone	4. No religion promotes violence and generally all agree that violence should be avoided.	Key quotes to remember
Terrorism	The unlawful use of violence, usually against innocent civilians, to achieve a political goal	Peaceful protests are often preferred to violence. The work of Dr Martin Luther King Jnr. during the civil rights movement is an example of this.	"The servants of the Lord of Mercy are those who walk humbly on the earth, and who, when aggressive people address them, reply, with words of peace ". Qur'an 25:63
Greed	Selfish desire for something	5. Terrorism is condemned by main-stream religious groups. This is because the actions often result in the death of innocent people.	"Do not take life, which God has made sacred " Qur'an 17:33
Self-defence	Acting to prevent harm to yourself or others	However, although most religions have extreme groups in their faith.	"Know the evil of war is swift, and its taste bitter" Hadith
Retaliation	Deliberately harming someone as a response to them harming you	Greed for land, wealth or power can lead a country to challenge a weaker country, invade and take the resources they were after.	"Those who have been attacked are permitted to take up arms because they have been wronged" Qur'an 22:39
Just War	A war that meets internationally accepted criteria for fairness; follows traditional Christian rules for a just war, and is now accepted by all other religions.	 Self-defence is usually considered to be a morally acceptable reason to go to war e.g. Great Britain defended itself in WWII against Nazi Germany. 	"Whoever saved a life, it would be as if they saved the life of all mankind " Qur'an 5: 32
Holy War	Fighting for a religious cause or God, probably controlled by a religious leader	8. Sometimes wars are fought in retaliation against a country which is seen to have done something wrong e.g. the invasion of Afghanistan in	"But I tell you, do not resist an evil person . If anyone slaps you on the right cheek, turn to them the other cheek also" Matthew 5:39
Lesser jihad	The outward struggle to defend one's faith, family and country from threat	response to the attack on the World Trade Centre in NYC.	
Weapons of mass destruction/ chemical/	Weapons that kill large numbers of people/ weapons that use chemical to poison, burn or paralyse humans and destroy the natural environment/	9. There are differing types of weapons. Often weapons of mass destruction are held by countries so that they are feared by other countries. In 2015, nine nations possessed around 15,700 nuclear weapons between them.	"You have heard that it was said to the people long ago. 'You shall not murder, and anyone who murders will be subject to judgment.' But I tell you that anyone who is angry with a brother or sister will be subject to judgement." Matthew 5: 21-22
biological weapons	weapons that contain living organisms or infective material leading to disease or death.	10. Religions use rules to determine whether they should go to war or not. Muslims call it a just war as part of lesser jihad. Christians have the 4 th Century theory on Just War – 9 ways and reasons	
Greater jihad	The personal inward struggle of all Muslims to live in line with the teachings of their faith	to go to war.	"For the love of money is a root of all kinds of evil" 1 Timothy 6:10
Pacifism	The belief of people who refuse to take part in war and any other form of violence		

MA MAISON - MY HOUSE

FRENCH - KNOWLEDGE ORGANISER YEAR 10

J'habite	l live
dans	in
une maison	a house
un appartement	a flat
un immeuble	a block of flats
une ferme	a farm
une maison individuelle	detached house
une maison jumelle	semi-detached house
une maison en rangée	terraced house
en banlieue	in the suburbs
à la campagne	in the countryside
au centre-ville	in the town centre
au bord de la mer	by the seaside
à la montagne	in the mountains
J'y habite depuis deux ans	I have lived there for 2 years
grand(e)	big
vieux/vieille	old
beau/belle	beautiful
moderne	modern
ancien(ne)	old/ancient
Le salon	lounge
la salle de séjour	living room
la salle à manger	dining room

ma chambre	my bedroom
la cuisine	kitchen
la salle de bains	bathroom
la cave	basement
les escaliers	stairs
le balcon	balcony
la terrasse	patio / decking
un jardin	a garden
nous avons	we have
nous n'avons <mark>pas</mark> de	we don't have any
ll y a	there is/ there are
ll n'y a pas de	there isn't/aren't any
joli(e)	pretty
petit(e)	small
c'est	it is
est	is
près de	near to
au premier étage	on the first floor
au sous-sol	in the basement
les pièces	rooms
l'entrée	hallway (entrance)
une armoire	a wardrobe
un ordinateur	a computer



en car de ramassage	by pick-up bus
en voiture	by car
à vélo	by bike
à pied	on foot
un lit	a bed
un ordinateur portable	a laptop

COMPLEX STRUCTURES

Après avoir visité Paris, je voudrais y habiter – after having visited Paris, I would like to live there. J'ai l'intention d'habiter à Paris – I intend to live in Paris J'ai décidé de visiter Paris – I decided to visit Paris Je pourrais habiter – I could live Je ne pourrais pas habiter – I could not live Je voulais habiter – I used to want to live......



historique touristique pittoresque elle se situe au bord de la mer à la montagne on pourrait aller en ville on peut + inf faire du shopping faire les courses visiter le musée aller à la plage le monde tout le monde il y a trop de monde beaucoup de la circulation un immeuble Je me balade

un centre de sport

- historic

- touristic
- picturesque
- it is situated
- by the seaside
- in the mountains
- we/you could go
- in/into town
- you can + inf
- go shopping
- to do (food) shopping
- visit the museum
- go to the beach
- the world
- everyone
- there too many people
- lots of
- traffic
- a block of flats
- I go for a stroll
- a sports centre

un centre de loisirs

- le château
- une gare
- une gare routière une grande surface
- un musée
- un cinéma
- un parc d'attractions
- une piscine
- une plage
- un stade
- plus moderne que
- sous / sur
- dans
- J'habite à Torquay J'habite en France (f) J'habite au Canada (m) mon quartier les espaces verts un jardin public une commode une chaise les escaliers une étagère
- un lit
- une table

- a leisure centre
- the castle
- a station
- a bus station
- a hypermarket
- a museum
- a cinema
- a theme park
- a swimming pool
- a beach
- a stadium
- more modern than
- underneath / on
- in (inside eg. building)
- I live in Torquay
- I live in France (f)
- I live in Canada (m)
- my neighbourhood
- green spaces
- a public garden
- a chest of drawers
- a chair
- the stairs
- a shelf
- a bed
- a table

une télévision

une patinoire

une poubelle

(trop) bruy-

très vivant

ennuveux /

ant

un miroir

a m

- a TV

- a mirror
- ice skating rink
- a rubbish bin
- too noisy
- very lively

- boring

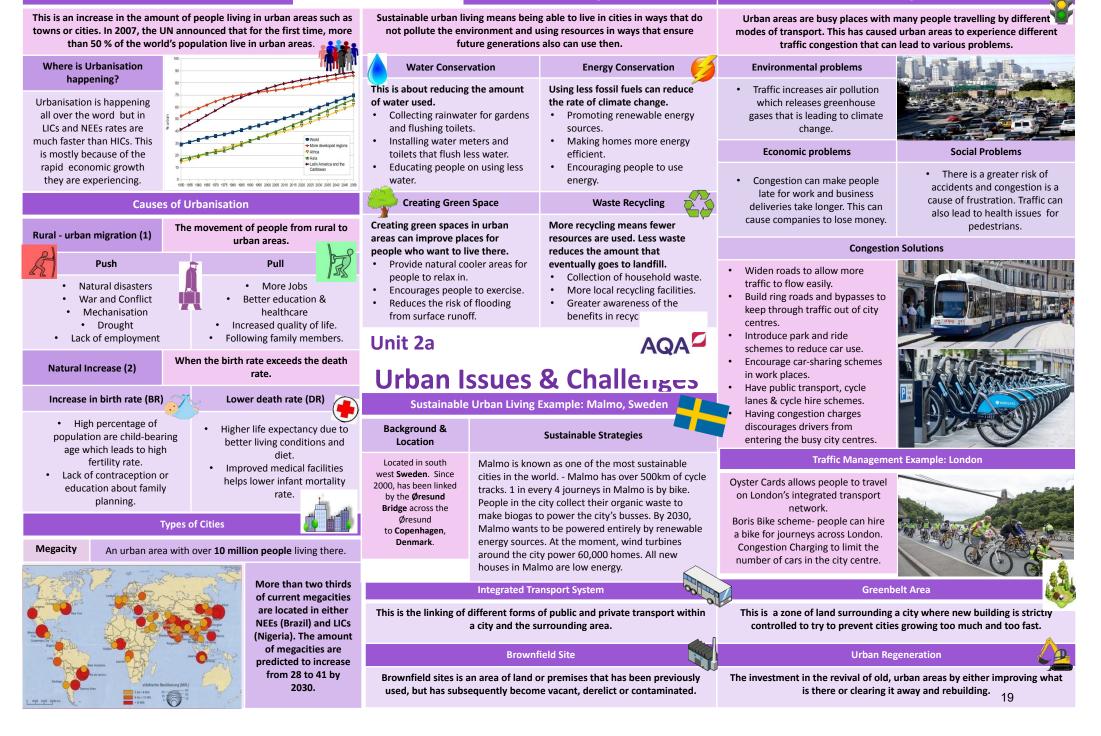


What is Urbanisation?

GEOGRAPHY

Sustainable Urban Living

Traffic Management



Location and Background

London can be found in the South East of England, located on the River Thames which has been influential in its growth, and in the centre of the densest population of the UK. It also hosts the parliament of the UK.

population size.



• Within Europe, London is part of Europe's economic core, the area producing the majority of the GDP or wealth of Europe.

City's Importance

- London is one of the most visited cities in the world.
- London has several major airports including Heathrow, Gatwick, City and London Stansted.
- 65% of London's land is either gardens, public green space or water.



Urban Change in a Major NEE City: LAGOS Case Study

City's Importance

The city was originally a small fishing village. In the early twentieth century it became the capital city of Nigeria until 1991 when the government moved to Abuja.

The population of Lagos increases by approximately 600,000 each year. The Lagos State Government estimates the population of Lagos to be 17.5 million. Urban growth occurred along the line of the railway. A population boom occurred during the 1970s as the result of the growth of the oil industry. Many thousands of people moved to the city seeking jobs in this industry. 80% of Nigeria's industry is located within Lagos. It remains the main financial centre of West Africa. The city has an international airport and an important sea port.

Migration to London

City's Opportunities

There are 3 main reasons for migration to London: 1. **Internal** (within the UK) migration has been negative; that is the numbers of people moving out of London has been greater than the number of UK residents moving in. This balance has got smaller over time.

2. International net migration is positive, so there have always been more foreign born people moving into London than out of it

3. Natural Change has been positive, so births have been above deaths and this has boosted the



City Challenges

Social: House price increase along with greater house shortages. Inequalities in education. Increased crime rates.

Economic: INEQUALITIES exist in London between the rich and the poor – income, education, housing.

Environmental: Urban sprawl has led to increased pressure and decline of greenfield sites around the city. London suffers from air pollution due to a dense road network and high buildings. This means that central London tends to be one of the most polluted places in the UK. **Social:** cultural mix or multiculturalism basically refers to a country or place that has more than one culture living together in close proximity. Multiculturalism is an issue in many HICs and can be viewed in both a positive light and as something that can pose problems that need careful management.

Economic: London is a major world financial centre and a range of businesses which attract a highly skilled workforce.
London residents (aged 16 to 64 and working) are more likely to be employed in managerial, professional or associate professional and technical occupations.

• The unemployment rate was one of the highest (10%)

Environmental: Urban greening means to increase the amount and proportion of green spaces within a city. These green spaces are essential for people's quality of life. London has made attempts to offer lots of green spaces

Plymouth Regeneration:Drake Circus & Mill Bay

Two focuses: Drake Circus and Drake Leisure

Drake Circus was an old shopping centre and Drake Lesiure was the old Coach station.

Drake Circus and Drake Leisure

Social - encourage people into the city centre Economic - People spending money in the area

Mill Bay:

Social - range of new housing Economic - range of construction jobs, new school Environmental - cleaned up marina, urban greening The main reason for migration to Lagos over the past 50 years has been rural- urban migration. People are encouraged to leave the countryside by push factors such as the lack of job opportunities and low wages. They are brought to the city by pull factors such as the prospect of well-paid work and the attraction of an urban lifestyle.

Another reason for Lagos' population growth is the high rate of natural increase in the city's population. This is due to the city's youthful population, since most migrants to the city are young. Nigeria is becoming an increasingly urbanised country. By 2015, just over half the population was still living in rural areas, but as rural– urban migration continues, the majority will be urban within the next few years.

Migration to Lagos

Reasons for rural to urban migration

Education and health services are poor in rural areas. Changing climate is making the weather less predictable. Droughts and floods occur more often, now.

Farming pays low wages but requires a lot of hard work. Few job opportunities exist other than farming. There is a land shortage due to population growth.

Despite urbanisation, rural population continues to grow. Land is degraded due to farming and other activities. Land in the Niger Delta region is polluted by the oil industry. Political unrest creates insecurity. The terrorist group, Boko Haram, is active in the north of Nigeria.

City Challenges

Social: There is a severe shortage of housing, schools and healthcare centres available. Large scale social inequality, is creating tensions between the rich and poor.

Economic: The rise of informal jobs with low pay and no tax contributions.

Environmental: Shanty towns are established around the city, typically on unfavourable land, such as low lying flat land vulnerable to flooding. Makoko is one of the world's largest waterside slums, much of it built on stilts above the waters of the Lagos Lagoon, on the eastern fringes of the city of Lagos in Nigeria. With an estimated 2,000 people migrating to Lagos every day, many end up in informal settlements like Makoko and people started building over the water. One of the main requirements was for more school space. The existing school is built on reclaimed land, but does not have room to expand and is also subject to periodic flooding. Adeyemi volunteered to design and help build a floating school for the area. Adeyemi designed a 3-storey A-frame multipurpose structure that could serve as a school as well as a venue for local community meetings and other activities. The whole structure floats on a matrix of 256 plastic 200-litre drums. Some of the outer drums can be used to store rainwater, a solar panel is used to supply electricity, and there are composting toilets aboard. In June 2016, however, the project was dealt a blow it collapsed during a heavy thunderstorm in Lagos.

Self-help schemes - Floating School



HISTORY

GCSE History. Medicine Through Time



Renaissance

Voluntary hospital Industrial Revolution Epidemic

Superstition Leeching

Fasting Astrology Wise Woman Physician Dissection Trepanning The Four Humours

21

Year 11 History Medicine through time.

The Medical Renaissance in England, 1500-1700

Renaissance England.

The Renaissance was the period between 1500-1700 in. England. Art and Science were growing in importance.



1543 – Vesalius published The Fabric of the Human Body. It showed how the human body worked.

1565 - the first dissection was carried out in Cambridge.

1628- Harvey published his book An Anatomical Account of the Motion of the Heart and Blood which showed blood moving around the body.

1645 - The first meeting of the Royal Society.

1665- The Great Plague in London. 75,000 died.

Key words:

Continuity	Microscope
London Treacle	Thermometer
Autopsy	Mortality Bill
Diagnosing	Pesthouse
Royal Society	Printing
Anatomy	Physiology

Key Concepts of Medical Renaissance: <u>The King</u> – People still believed the King could cure diseases such

<u>The King</u> – People still believed that the King could cure diseases such as scrofula (a skin disease). Being touched by the King was as close as you could get to being touched by God.

Renaissance – this was a time of change (re-birth) when people became interested in all things Greek and Roman. Printing was developed so that books could be published (e.g. Galen, Vesalius). People realised the Greeks had loved enquiry – asking questions and challenging old ideas.

Evidence – rather than believing & accepting old ideas (e.g. The Four Humours) without question, scientists and doctors were more willing to experiment (e.g. dissecting bodies. People started to look to evidence over tradition.

Key people of Renaissance Medicine: Thomas Sydenham William Harvey Andreas Vesalius

Medicine in 18th and 19th century Britain

<u>18th and 19th century</u> <u>Britain</u>.

This was a time of breakthroughs in medicine in England. There were many scientific discoveries but also many Public Health problems.

Key Words:

Vaccine Sanitation

Smallpox Workhouse

Anaesthetic Drugs Dispensary

Infection Voluntary hospital

Cholera Chloroform

Germ Theory Industrial Revolution

Antiseptic Breakthrough

Medical Officer Public health

Contagion

Epidemic

Key Concepts of Medicine in the 18th & 19th Century:

Nursing – Nurses are responsible for the care of patients in hospital. Before 1800, hospitals were dangerous places where death was very likely. The development of nursing changed that.

Breakthrough – a scientific discovery that dramatically alters the way people understood disease – e.g. the discovery of bacteria. This then helps the problem to be solved.

Public Health – when the government takes measures to prevent diseases spreading and to help the population become healthier. The government increasingly took on this role after the development of germ theory.

Key events:

4.5

Key people of 18th and

19th Century medicine.

Florence Nightingale

Robert Koch

Edward Jenner

John Snow

1798: Edward Jenner developed the first vaccine for Smallpox.

1847: James Simpson developed chloroform as an anesthetic.

1854: John Snow's maps proved the source of cholera.

1861: Louis Pasteur's germ theory was published.

1867: Lister used antiseptic to prevent infection.

1875: The Public Health Act.

1882: Robert Koch identified bacteria that caused specific diseases.



about this development.

1900 - life expectancy was still below 50 years

1911 - National Insurance Bill introduced gave help if workers were sick or unemployed.

1914-1918 World War One leads to developments in surgery and treatment.

1928 - Fleming discovered penicillin.

1938 - Florey and Chain developed use of penicillin.

1948 - The NHS begins following the Beveridge report (1942)

1953 - Crick and Watson discovered the structure

who could vote and the shared experience of suffering in WW2 bought

The British sector of the western front 1914-18 injuries. treatments and the trenches.

Using sources key words:SourceUsefulProvenanceContextual knowledgeNatureSuggestsOriginSupportsPurposeAccurateEvidenceAtypicalTypicalSupports	Possible sources of evidence about medicing on the Western Front: Photographs Diaries Autobiographies/memoirs/ interviews of soldiers or different medical staff Newspaper reports Doctors'/surgeons' medical journals Military records showing RAMC records of	Key words: The Western Front RAMC (Royal Army Medical Corps) Trenches Triage Arras underground network.
New treatment techniques in WW1 1. Wounds and infection -The Carrel-Dakin metho - Debridement - Amputation 2. The Thomas Splint 3. Mobile x-ray units: 4. Blood transfusions: 5. Brain surgery 6. Plastic surgery:	evacuation	Field Ambulance Front line Major battles of the Western Front. Oct-Nov 1914 - First Battle of Ypres April 1915 - Hill 60 Apr-May 1915 - Second Battle of Ypres July - Nov 1916 - Battle of the Somme Apr - May 1917 - Battle of Arras July - Nov 1917 - Third Battle of Ypres Oct - Dec 1917 - Battle of Cambrai

SPANISH - Y10 - Term 2

	Generación digital - The digital generation						
descargar música	to download music		llamar por videollamda	to make a video call		la conexión wifi	Wi-Fi connection
gastar batería	to waste/use battery		sacar fotos	to take photos		la cuenta	the account
hacer la compra	to do the shopping		subir fotos	to upload photos		el navegador	sat-nav
por Internet	online		la aplicación/ la app	application (app) 🛛 🔊		la radio digital	digital radio
jugar a videojuegos	to play video games		las compras	shopping		el supermercado virtual	online supermarke
- A					۳	la tableta	tablet
		~)		
			Qué ponen en la telev	visión ?- What's on TV	/?		
el concurso	the game show	£	el programa musical	music programme		el capítulo	episode/chapter
los dibujos animados	cartoons	Ş	la serie	the series		el dipositivo	the device
el documental	the documentary		el telediario	the news		hacer un maratón de	to binge-watch
la película	the film	S	la telenovela	the soap opera		la programación	TV guide/schedule
el programa de deportes	sports programme		a la carta	on demand		la variedad	variety
el programa de humor	comedy programme	1	el canal	the channel			
		¿Ει	n el cine o en casa ?- Ir	n the cinema or at ho	me	?	245
una película	a film	Ì	romántica	romantic		nuevo/a	new
cómica	comedy		cautivador(a)	captivating		peor	worse/worst
de aventuras	adventure		complejo/a	complex		predecible	predictable
de ciencia ficción	science fiction		decepcionante	disappointing		profundo/a	deep/insightful
de dibujos animados	animated		entretenido/a	entertaining		sangriento/a	gory
de miedo	horror	P	espeluznante	terrifying		triste	sad
de misterio	mystery		impactante	striking		me da miedo	it scares me
del oeste	western		mejor	better/best		me hace pensar	it makes me think
musical	musical		memorable	memorable		me hace reir	it makes me taugh

Somos melóman@s	We're music lovers	Mis intereses	My personal	Esto es lo que	This is what l
los instrumentos	instruments	personales	interests	llevo	wear
la música	music	los datos personales	personal data	la ropa	clothing
tocar	to play (an instrument)	el estado	status	llevar	to wear
la batería	the drums	la obsesión	obsession	¿qué llevas?	what do you wear?
la flauta	the flute	el perfil de Internet	internet profile	llevo	l wear
la gaita	the bagpipes	la red social	social network	los calcetines	socks
la guitarra	the guitar	la tendencia	trend	la camisa	shirt
la pandereta	the tambourine	el tuit	tweet		t-shirt
el piano	the piano	cambiar mi estado	to change my status	la camiseta	
la trompeta	the trumpet	comentar las fotos	to comment on photos	la chaqueta	jacket
el violín	the violin	dar 'me gusta'	to 'like' e.g. a photo	la corbata	tie
el/la artista	the artist	hacer vídeos en directo	to make live videos	la falda	skirt
la banda	the band/group	leer las noticias	to read the news	la gorra	сар
el/la cantante	the singer	estar de moda	to be fashionable	el jersey	jumper
el concierto	the concert	estar bien informado	to be well informed	los pantalones	trousers
el/la melómano/a	the music lover	estar obsesionado/a	to be obsessed	el uniforme	uniforn
la pasión	passion	poner efectos	to add effects	los vaqueros	jeans
Quiero ser	I want to be	poner filtros	to add filters	el vestido	dress
el/la actor/actriz	actor/actress	subir selfis	to upload selfies	las zapatillas (de	tur in and
el/la arquitecto/a	architect			deporte)	trainers
el/la bibliotecario/a	librarian	el/la médico	doctor	los zapatos	shoes
el/la bloguero/a	blogger		fishmonger	bonito/a	pretty
el/la carnicero/a	butcher		pilot	cómodo/a	comfortable
el/la científico/a	scientist		police officer	elegante	smart, stylish
el/la cocinero/a	chef		teacher	guay	cool
el/la dentista	dentist		receptionist	tradicional	traditional
el/la electricista	eletrician		secretary		
el/la enfermero/a	nurse	, , , , , , , , , , , , , , , , , , ,	the boss	este/esta	this
el/la escritor	writer		freedom	estos/estas	these
el/la fontanero/a	plumber photographer		salary	ese/esa	that
el/la fotógrafo/a	farmer		pleasant stimulating	esos/esas	those
el/la granjero/a el/la jugador/a de fútbol	footballer		demanding	aquel/aquella	that (further away)
el/la mecánico/a	mechanic		satisfying	aquellos/aquella	those (further away)
		grauncance	sausiying		

5	$\sim\sim\sim\sim$	$\sim\sim\sim$	$\sim\sim\sim\sim$	$\sim \sim \sim$				
(Estrellas con estilo – Stars with syle							
2	los estampados	- patterns	de lunares	- spotted				
	amplio/a	- baggy	de rayas	- striped				
$\left\{ \right\}$	corto/a	- short	apropiado/a	- appropriate				
(de cuadros	- checked	distinto/a	- different				
2	estampado/a	- patterned	la blusa	- blouse				
)	estrecho/a	- tight	la cinta para el pelo	- headband				
$\left\{ \right\}$	de flores	- floral	el cinturón	- belt				
(hortera	- tacky	el estilo	- style				
2	largo/a	- long	el pijama	- pyjamas				
)	liso/a	- plain						
0	$\sim \sim \sim$	$\sim\sim\sim$	$\sim\sim\sim\sim\sim$	$\sim\sim\sim$				

De tiendas – At the shops

la carnicería	butcher's	alquilar	to hire
la chocolatería	chocolate shop	cerrar	to close
la joyería	jewellery shop	los complementos	accessories
la panadería	baker's	loco/a	crazy
la papelería	stationary shop	nuevo/a	new
la perfumería	perfume shop	algunos/as	some
la pescadería	fishmonger's	ciertos/as	certain
la tienda de disfraces	fancy dress shop	muchos/as	many
La tienda de ropa	clothes shop	otros/as	other
la zapatería	shoe shop	pocos/as	few
el abrigo	coat	todos/as	all
abrir	to open	varios/as	several

abrir	to open	varios/as	several	â 👐	
įE	s imposible compra	r así!	lt's	impossible to buy l	ike that!
tiene un agujero	it has a hole	probar	to try on	el tique de compra	receipt
está roto/a	it is broken	quedar bien	to suit/fit	vale	right,good,ok
cambiar	to (ex) change	el reembolso	refund	vender	to sell
funcionar	to work/function	¿En serio?	Really?		
pedir	to ask for	Lo siento	I'm sorry		

En el centro comercial	In the shopping centre
los centros comerciales	shopping centres
por Internet	online
las tiendas pequeñas	small shops
la agencia de viajes	travel agency
las alfombras	rugs
la alimentación	food
la azotea	rooftop
el juguete	toy
la juguetería	toy shop
el hogar	homewares/home
la moda deportiva	sportswear
los muebles	furniture
la planta baja	ground floor
la relojería	watch shop
el anuncio	advert
devolver	to return
en línea	online
hacer clic	to click (the mouse button)
la oferta	offer
el ratón	mouse
la variedad	variety
primero	first
segundo	second
tercero	third
cuarto	fourth
quinto	fifth
sexto	sixth
séptimo	seventh
octavo	eighth
novena	ninth
décimo	tenth 26

SHOP

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	l 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

¡Те	mientras			
-		llevarse bien	to get on well	nunca
aguantar(se)	to stand/bear	con	with	raras veces
criticar	to criticise	llevarse mal	to get on	siempre
Chucai		con	badly with	deprisa
discutir	to argue, quarrel	pelearse	to fight/argue	tener prisa
enfadarse	to get angry	respetar	to respect	
gritar	to shout	volver a casa	to return home	
llegar a casa	to arrive home	estar de acuerdo	to be in agreement	
estar en contra	to be against	a todas horas	all the time	
estricto/a	strict	al conflicto	conflict	
incompatible	incompatible	el lío	mess	
injusto/a	unfair	el permiso	permission	
justo/a	fair	la regla	rule	
razonable	reasonable		S	panish

Lo que hago por las mañanas	- What I do in the mornings
La rutina	routine
desayunar	to have breakfast
despertar(se	to wake up
duchar(se)	to have a shower
ir al instituto	to go to school
lavar(se) los dientes	to brush your teeth
levantar(se)	to get up
peinar(se)	to brush/comb your hair
vestir(se)	to get dressed
a menudo	often
a veces	sometimes
antes	first,before
después	after, afterwards
durar	to last
inmediatamente	immediately
luego	then, later
mientras	while
nunca	never
raras veces	rarely
siempre	always
deprisa	fast, quickly
tener prisa	to be in a hurry
S	sueño con otra vida

•	Lo que hago por las tardes y por las	What I do in the afternoons and				
	noches	evenings				
	acostar(se	to go to bed				
	cambiar(se) de ropa	to get changed				
	cenar	to have dinner				
	hacer los deberes	to do homework				
	merendar	to have a snack (afternoon)				
	pasear al perro	to walk the dog				
r	relajar(se)	to relax				
•	volver a casa	to return home				
_	cuando llego a casa	when I arrive home				
	cuando me apetece	when I feel like it				
	si mis padres me dejan	if my parents let me				
	si tengo tiempo	if I have time				
	siempre que puedo	whenever I can				
	al final del día	at the end of the day				
	aproximadamente	approximately				
	el proyecto	project				
	temprano	early				
	(no) tener tiempo	to (not) have time				
	WWWWWWWWWWW	11 12 1				





I dream about another life

	ambicioso/a	ambitious	últimamente	recently, lately				
B	el canal	canal	vender	to sell				
	cansar	to tire	comenzar/empezar a	to start doing				
	igual	same, equal	Dejar de	to stop doing				
	el pensamiento	thought	depender de	to depend on				
	el puente	bridge	hablar con	to talk to				
	la quinceañera	15th birthday party	hablar sobre	to talk about				
	recoger	to collect/pick	pensar en	to think about				
	el sentimiento	feeling	soñar con	to dream about				
١	tardar	to take (time)/be late	volver a	to do something again				
•	traer	to bring		27				

Component 1: Creative Practice in Art & Design CIMEN'S OF OUR WOR

investigation, visual language, approaches, skilful, comparisons, risk-taking, communication, Words insightful, practitioners, two-dimensions, manipulate, traditional, contemporary, Key disciplines, constraints, line, tone, shape, colour, pattern, texture, composition, space, depth, light,

shadow, harmony, contrast, symmetry, asymmetry.

Materials, Techniques and **Processes:** pencils, graphite, ink, pen and wash, drawing pens, chalk, pastels, hand-made tools, print-making, painting, acrylic, watercolour, ink, digital drawing, manipulation, textiles, print, embellish, collage, photography and digital manipulation.



- A. Use investigation and experimentation processes in art and design practice.
- Generate and communicate art and design ideas.
- C. Develop practical skills through application and review
- D. Record and communicate skills development.

Fragments of Our World:

(a small part broken off or separated from something, break or cause to break into fragments)

Artists, designers and crafts people need 2D skills and knowledge to communicate their ideas effectively. Working in 2D requires skills in handling 2D materials and techniques. In Component 1 you will experiment with a range of 2D mark-making activities whilst exploring and being inspired by Fragments of Our World. You will focus on either **people**, architecture or natural forms.



- Investigate historical and contemporary practitioners.
- for Success • Consider your audience needs.
 - Research primary and secondary sources.
 - Respond to the work of others practically.
 - Solve creative problems.
 - Reflect on your ideas.
 - Support visual ideas with diagrams, annotations and explanations.
 - Consider health and safety practice.
 - Learn from mistakes through trial and error.
 - Stay organised.

Tips

Consider presentation.



Useful Websites

- www.artjournal.co.uk
- www.creative-choices.co.uk/industry-insight/inside/design ٠
- www.culture24.org.uk/
- www.fashion-era.com/C20th costume history
- www.graphicdesign.about.com/arts/graphicdesign
- www.masters-of-photography.com

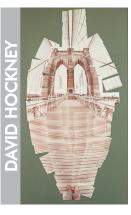


and experimentation Use investigation processes in art and design practice - research a range of practitioners, using primary and secondary sources. Develop understanding of art and design practice through investigation and experimentation, exploring how practitioners use materials, techniques and processes to find creative solutions and communicate with audiences.

Generate and communicate art and design ideas - explore and develop a range of experimental and imaginative ideas, applying research and practical investigation to visually communicate ideas.

Develop practical skills through application and review - develop practical skills through exploration of materials, techniques and processes. Practise and review skills relevant to creative intentions in order to develop and improve work.

Record and communicate skills development - use methods of recording to document and communicate development of skills and creative work.





Artists to Investigate:

Erik Jones, Josh Bryan, Nick Gentry, David Hockney, Khan Nova, Ed Fairburn, David Mack, Faig Ahmed, Fernand Léger, Daniel Clark, Alan Fletcher, Charles Sheeler, Jon Measures, Rebecca Vincent, John Piper, Sey Fedulor, David Schnell, Sophie Layton, Bonnie and Clyde, Florian Nicolle, Ray Van Nes, Irene Imfeld, Matthieu Paley, Ian Murphy, Edward Weston and Amiria Gale, Sophie Layton and Bonnie & Clyde.



BUSINESS STUDIES

1.3 Putting a Business Idea into Practice

1.3.1 Aims & Objectives

Aims – a long term, strategic goal eg grow the business

Objective- a short term specific target eg increase market share by 5% this year

Financial Objective – one that involves money eg improve sales, profit, market share, survival etc

Non Financial Objectives – one that does not involve money : personal satisfaction, challenge, control, independence, social benefit

1.3.2 Revenue, Costs and Profit

Formulas needed

Revenue = Selling Price x Quantity

Profit = Revenue – Total Cost

Total Cost = Fixed Cost + Variable Cost

Total Variable Cost = Variable Cost per unit x Quantity

Breakeven = Fixed Cost/(Selling Price-Variable Cost)

Margin of Safety = Actual Sales – Breakeven Level

Interest = (Total Repayment – Borrowed Amount)/Borrowed Amount

BUSINESS STUDIES

1.3.2 Revenue, Costs and Profit

Key Terms

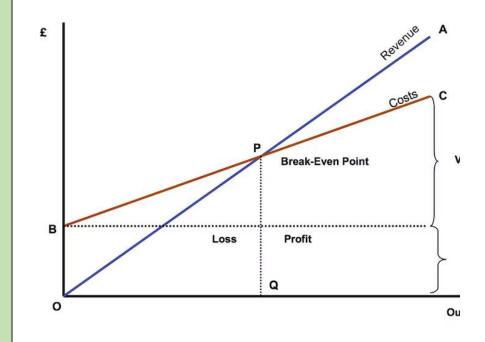
Variable Costs – costs that change with the level of output eg raw materials

Fixed Costs – costs that do not change with the level of output eg rent

Interest – cost of borrowing money from the bank or other financial institution

Breakeven – the minimum level of output needed to cover all costs, so no profit or loss is made

Margin of Safety – the amount of sales the business can afford to lose without making a loss



Cash Flow Forecasts

Opening Balance – money in the bank at the beginning of the month

Cash in – all money into the business including revenue, investment, loans etc

Cash out – all money out of the business including purchases and expenses

Net Cash Flow – How much the money in the business has changed

Closing Balance – money in the bank at the end of the month

CASH FLOW FORECAST

AMERICAN

£	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9
Opening Balance	0	(4,850)	(9,950)	(14,300)	(8,650)	(13,700)	(18,500)	(21,900)	(26,400)
CASH INFLOW									
Online Shopping Revenues	2,000	2,250	2,500	3,000	3,250	3,500	4,000	4,250	4,500
Government Grant				10,000					
Total Inflows	2,000	2,250	2,500	13,000	3,250	3,500	4,000	4,250	4,500
CASH OUTFLOW									
Office rental	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)
Employee Salaries	(5,000)	(5,000)	(5,000)	(5,000)	(6,000)	(6,000)	(6,000)	(6,000)	(6,000)
Jtilities (energy, water and broadband)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)
Fravel	(450)	(450)	(450)	(450)	0	0	0	(450)	(450)
Digital Marketing	0	(500)	0	(500)	(500)	(500)	0	(500)	(500)
Shipping	(100)	(100)	(100)	(100)	(500)	(500)	(100)	(500)	(500)
lotal Outflows	(6,850)	(7,350)	(6,850)	(7,350)	(8,300)	(8,300)	(7,400)	(8,750)	(8,750)
NET CASHFLOW						L			
Closing balance	(4,850)	(5,100)	(4,350)	5,650	(5,050)	(4,800)	(3,400)	(4,500)	(4,250)
	Parenth	eses denote	e negative n	umbers					

Sources of Finance for Business

Short Term

Overdraft - having a negative balance in the bank account

Trade Credit – buy now pay later given by suppliers



Long Term

Personal Savings – business owners putting in their own money

Venture Capita – (Dragon Den) experienced business people invest for a share of the business and lend their expertise and experience to help business succeed

Share Capital – selling shares in the ownership of the business to others

Loans - borrowing money from a bank and repaying with interest

Retained Profit – using profit made previously to reinvest in the business

Crowd Funding – using online platforms to raise money from a range of investors/donors in exchange for a loan, shares, discounts/privileges etc

dea into Practice .4 Putting a **Business**

1.4.1 Business Start ups

Franchise – when one business (the franchisor) sells the right to use their brand and sell their product to an individual or other business (the franchisee).

Sole Trader - a business owned by only one person, who can employ others if they like. A sole trader has unlimited liability.

Partnership – business owned by between 2-20 partners who all own part of the business and normally are involved running the business. Partners have unlimited liability.

Private Limited Company – Tend to be family run businesses. They can sell shares to family and friends but not to the general public. Shareholders have limited liability.

Liability – the amount of financial loss or criminal/civil damage you are responsible for.

Unlimited Liability – The owners are responsible for all the debt of the business and could lose their personal possessions like home and car because of it.

Limited Liabiliity – any financial loss is limited to the financial investment made into the company, any personal assets are safe.

1.4.2 Business Location

Factors influencing business location

Proximity (closeness) to: customers, staff, materials and competitors

The nature of the business activity

The impact of the internet on location decisions

e-commerce vs bricks and mortar shops

e-commerce saves on need for expensive high st location next to customers saving money but many enjoy trying goods before they buy.





1.4.3 The Marketing Mix

Key Terms

Marketing Mix – 4Ps – Price Product, Place and Promotion

Adjusting the marketing mix based on the levels of competition. Eg lowering prices if a new competitor starts to steal customers

How changing customer needs impact the marketing mix eg with more people working and more living alone the need for convenience in food is leading to increase in ready meals and deliveries

Impact of technology on the marketing mix, especially e-commerce impacting place and digital communications influencing Promotions.









1.4.4 Business Plans

The business Plans tend to include:

The business idea; aims and objectives; target market (market research); location, marketing mix; forecast revenue, costs and profit; and sources of finance.

Business Plans are used to attract finance from banks (loans) or investors as they show why the business needs the money and by when they will be able to pay it back.

They also help to minimise risk as they aide entrepreneurs to consider different aspects of the business and get prepared. Eg arrange overdraft if a shortage of funds identified for a short period of time.



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
- ☺ 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

33

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? out once you had comple to show through your ch to see about them? I purpose of your piece ov ow? 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 emotionally to the characters. The audience will laugh and then question why they laughed.		

HEALTH & SOCIAL CARE

	na Social	l Care Knowledge organiser	Special Methods of Communication in			
Confidentiality		ting a persons privacy and not personal, sensitive information about	Health and Social Care			
	a perso	•	Braille	A writing and reading system for people who have a visual impairment. Raised dots represent the alphabet. Braille is read by		
Disclosure		personal/sensitive information about on known to other professionals.			feeling those raised dots .	
			British Sign Language	expre	al means of communicating that incorporates gestures, facial essions and body language. Often used by people that are or have hearing impairments.	
		cess by which people gain control e factors and decisions that shape es	Makaton	enab	guage programme that uses symbols, signs and speech to le people to communicate. Used by infants to help with nunication or by adults/children who have a learning disability.	
Quality of Life	life in re	vidual's perception of their position in Plation to their health, values and that they have.	Interpreters		people with little or no spoken English to ensure their health needs are appropriately met and communicated.	
		,	Advocate		e a persons rights are being upheld, this may involve speaking persons behalf when they cannot.	
Jargon		nedical terminology that most people not be able to understand.	Voice Activated Software		Assist in communicating or providing support in tasks such as tur lights off.	
Informed Decision	Providin	ng information to a person (both	Person Centered Care Vo	alues		
Informed Decision	positively and negatively) so that they have a balanced view to make a decision.		Individuality		everyone has their own identity, needs, wishes and beliefs	
	I		Rights		As set out by the Human Right Act	
		Active Listening Skills	Choice		being able to make choices for themselves	
6 C's 1.Care	s O Show empathy, reflecting feelings O Open, relaxed posture		Privacy	he right to a private space, the right to personal inform being kept private		
2.Compassion		 Eye contact, looking 	Independence		being able to do things for themselves	
3.Competence 4.Communico			Dignity		being treated with respect, valuing individuality and beliefs	
5.Courage		 Nodding in agreement 	Respect		showing people they have importance as an individual	
6.Commitmer	n†	 Summarising to show understanding of key points. 	Partnership		being involved and working with family and other workers	

MUSIC

AUTUMN TERM -You Will Develop Your Understanding Of Musical styles

Popular music styles – (1 from each of the following groups)

1: 50s-60s: Rock 'n' roll, British invasion, folk Revival, motown & soul, psychedelic 2: 70s-80s: Heavy metal, prog, punk, disco, reggae, synth pop, hip-hop, post punk, hardcore 3: 90s to present, e.g. grunge, Britpop, rave, techno, house/techno, drum and bass, nu-metal, pop punk, dubstep, reggaeton, grime, trap



Other Music Styles – (1 style from two of the following groups)

4: World music and fusion, e.g. samba, bhangra, African drumming, gamelan
5: Music for media (film, TV or computer games), e.g. jingles, theme tunes, soundscapes, ambient music, foley, diegetic, non-diegetic, motifs and leitmotifs, thematic development
6: Western classical styles; baroque, classical, romantic, orchestral, leitmotif, minimalism, serialism
7: Jazz and blues, e.g. delta blues, trad jazz, bebop, swing/big band, modal jazz.











Oxford Cambridge and RSA		Year 10 Cambridge National in Sports Studies – Cycle Two Knowledge Organiser			Cambridge Nationals		
SPORT	Media	mass communi ectively	icatio	n			
Definition -Digital Media is media that operates with the use of various encoded machine-readable data formats		Definition -Broadcast the inclusion of d mediums that are communicating, trans broadcasting to th	lifferent used for smitting and		Definition –Print Media is a means of mass communication in the form of printed publications		
Digital Media Sources		Broadcast Media	Sources		Print Media Sources		
Social Networking		TV			Newspapers		
Media Sharing Sites		Radio			Magazines		
Live Streaming		Podcasts			Books		
Websites/Blogs							
Positive relationships between Media and Sport helps							
	pation			of less popular sports			
Positive impacts of the Media and Sport							

37

Increases in Revenue

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Education of higher levels of people

OCR Oxford Cambridge and RSA

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



Negative effects of the media in sport

A range of negative effects of the media on sport in relation to spectators and live sport

External factors affecting decline in live spectatorship

Ethical appropriateness of sponsors

How the media is assisting a widening wealth divide in sport

Impact of wider global issues on sport/ performers and spectators

Media demands affecting sport fixture scheduling

Negative impacts of the media on sports and sports performers

Coverage of inappropriate behaviour: On-field and Off-field

Rejection of sporting heroes

Scrutiny and criticism of participants: Performers, Officials, Leaders

Increased pressure on athletes to look a certain way and links to mental health





Careers Careers



Library News...

There are two libraries at Paignton Academy, Mrs Barter is the librarian at Borough Road, and Mrs Deane is the librarian at Waterleat Road.

Libraries can be places full of books where you have to be quiet all the time. At Paignton Academy we do things very differently! Whilst we do still want students to respect the Libraries and others that use it, we want to offer a great service to the whole Academy community. Library staff are members of the Careers Team and so can offer information and a relatively quiet place for students to research further and Higher Education opportunities and careers that you may wish to pursue in the future.

These are some of the services we offer:

Careers

• A daily Breakfast Club from 8.00am where we offer toast and squash - for free!

• We have thousands of books to suit all ages and abilities: from sports, to fantasy, to comedy, we have something for everyone.

• You can borrow board games and card games to play with your friends.

• Chromebooks can be borrowed that you can use to do your homework, do some research or just to enjoy.

• Various clubs are based in the Libraries that students can take part, for example, Chess Club and Cat Club.

• Special days where there are competitions and fun activities, for example, World Book Day.

- The chance to become a be a Student Assistant Librarian.
- The Libraries are a safe place if you need some 'me' time, or a place just to keep warm and unwind.

• Regular competitions to win prizes!

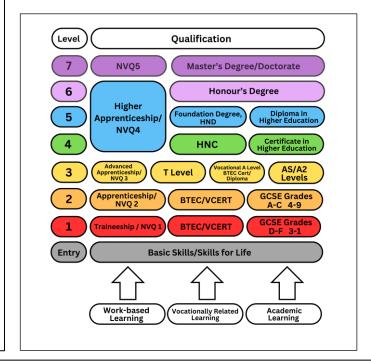
We also love a party, so look out for posters around the school with up to date information for when the next one is!

Getting to know me

What type of personality are you? Knowing who you are is a very important part of having a successful and satisfying career. By knowing you, you will know where your strengths lie and this will help you match suitable employment and training options. Why not use the following link and discover a little more about yourself? https://icould.com/buzz-quiz/



Types of qualifications (After Year 11) ...



Find out more by accessing the Careers Hub

The Careers Team are focussed on preparing our students for the challenges of the working world. We aim to do this by raising aspirations and building self-confidence. We are always available to speak to, via email and can arrange for one to one appointment. We offer regular drop in Careers sessions in the library at WRC on a Monday lunchtime and on a Tuesday lunchtime at BRC. We also offer extra drop in sessions at lunchtime covering topics such as securing an Apprenticeship, AI media workshop, Online/Interview skills, CV writing, job searching and applying for jobs. The Careers Hub is a dedicated careers information source simply click on the Careers Hub logo on the homepage of the Academy website to enter the site.

Please feel free to stop by the library or the Careers office at BRC and email us at:

careers@paigntonacademy.org

We look forward to hearing from you!







01752 512 280









Provides support for anyone under the age of 25 www.themix.org.uk | 0808 808 4994





Confidential support to people experiencing difficulties ww.thecalmzone.net 0800 58 58 58 Everyday, 5pm-midnight Whatever you're facing We're here to listen

someritans.org

Free 24/7 call service for all ages to talk about your issues www.samaritans.org | 116 123

stem4

Free service & apps supporting mental health for ages 11-19 www.stem4.org.uk



Find a member of staff with an Orange Lanyard

Speak to any member of staff



Use the 'Safeguarding Concern Form' on your school desktop page

Speak to your Head of House or Pastoral Manager