## KNOWLEDGE ORGANISER



Name: $\qquad$ Form:

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## 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 <br> TIME | HOME LEARNING ACTIVITIES | WHERE TO COMPLETE <br> e.g. home learning books, google <br> classroom, subject home elearning <br> books, Seneca | HOW IT WILL BE <br> MARKED |
| :--- | :---: | :--- | :--- | :--- |
| English | 60 mins per week | Students will build on \& extend topics <br> currently studied by completing GCSE <br> questions. <br> This will be interspersed with GCSE essay <br> questions enabling students to recall <br> previous material studied. | Students may complete and <br> submit on the Google <br> classroom or if they prefer may <br> complete by hand and submit <br> to the class teacher | General feedback will be <br> given. |
| Maths | 60 mins per week | Retrieval: Pupils will recall work completed <br> that week, plus other work in the year in <br> consolidations tasks <br> Flipped learning: Pupils will build on, extend <br> work currently completed. This will feed into <br> 'insights' given back to the teacher to feb <br> into starter tasks <br> Past Paper will be given close to PPEs and <br> summer exams. | Sparx website <br> On paper for past papers | In class for past papers |


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


| Drama | 45 mins - 1 hour per week | essay questions, keywords, research, line learning, live performance analysis, character work, technical and design planning, devising logs, exam revision | Complete on Google classroom and Word Wall Work will be set on Class Charts | Teacher/self/peer assessment. Exam style questions marked. |
| :---: | :---: | :---: | :---: | :---: |
| Music | 30 mins per week | Practice on instrument/composition/production skill sets. | On instruments/DAWs whilst completing rehearsal/production/compositi on logs. | Self-reflection of rehearsal effectiveness/composition development/production development. |
| Ethics | $30 \mathrm{~min} \mathrm{P} / \mathrm{w}$ | Seneca, Making retrieval quizzes, Cornell notes . | Seneca and Google classroom | Teacher/ online |
| Social Sciences | 45 minutes per week | Revision activities. Retrieval activities. Making online revision resources. Yr11 practice exam questions on paper | Google Classroom. Yr11 printed exam questions. | Self marked or checked via Google Classroom. Yr11 will have teacher marked practice exam questions. |
| Computer Science | 30 minutes per week | Year 10 - pre-reading and questions for future topics. <br> Retrieval of previously learnt topics. <br> Year 11 - up until half term - pre-reading and questions for future topics. <br> Retrieval of previously learnt topics. <br> After half term - revision of previously learnt topics. | Seneca and Smart Revise. | Self marked and checked by the teacher. <br> 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 |  |  |  |  |

Three witches meet and plot against Macbeth, who is currently leading the Scottish army in a battle against the Norwegians.

Duncan learns that Macbeth and Banquo have won the war. Macbeth has decapitated the 2 Scottish traitor, Macdonwald. Cawdor) will be executed.

Macbeth and Banquo meet the witches, who prophesy that Macbeth ${ }^{\text {T Thane of Glamis, }}$ Thane of Cawdor, King. Banquo's son ${ }^{\text {long }}$ king

## Malcolm will be Duncan's heir.

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.

Lady Macbeth welcomes Duncan to her castle.

Macbeth equivocates, doubting whether or not he can commit the murder. Lady Macbeth persuades him by questioning his masculinity.

Macbeth meets Banquo on the way to Duncan's chamber. Alone again, he sees a mysterious dagger leading him to the murder.

Macbeth meets Lady Macbeth, who becomes angry as he still has the daggers. She plants 2 them on the drugged guards and they go to bed.

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.

## Macdonwald's decapitated head:

 this symbolises the consequences of treachery. The fact that Macbeth severs Macdonwald's head indicates Macbeth's loyalty to King Duncan.Wasteland setting: the witches exist outside of civilisation; they are wild, dangerous and unknowable.

Milk: feminine symbol of compassion. LM rejects this, asking the spirits to replace milk with poison (death and destruction). Flower: innocent, fragile, natural being "fair".
Serpent: Biblical allusion to the "foul", malevolent devil.

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?).

Diamond: Duncan gave this to LM, emphasising the betrayal.
The dagger: it could be the witches leading Macbeth to the murder. Or, it could represent guilt.

Blood: inescapable guilt. Water: connected to Christian baptism: washing away one's sins. Macbeth thinks he will never cleanse his conscience.
. Witches: "Fair is foul and foul is fair: / Hover through the fog and filthy air."
A. Ambiguous: more than one interpretation
B. Enigmatic: mysterious, hard to understand
C. Malevolent: evil
D. Trochaic tetrameter: an unnatural rhythm, 8 syllables per line (stressed/unstressed)
E. Inevitability: an event cannot be prevented
2. Captain: "Unseamed him from the nave to the chops."
3. Duncan: "O valiant cousin!"
4. Banquo: "to win us to our harm /

The instruments of darkness tell us truths."
5. M: "This supernatural soliciting / Cannot be ill - cannot be good."
6. M : "my black and deep desires."
. LM: M is "too full o' the milk of human kindness."
8. LM: "unsex me here".
9. LM: "I feel now / The future in the instant."
10. LM: "Look like the innocent flower, but be the serpent under it."
11. Duncan: "Our honoured hostess."
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."
15. M: "heat-oppressed brain"
16. M: Duncan's "virtues will plead like angels."
17. M: "Will all great Neptune’s ocean wash this blood / Clean from my hand?"
18. LM: "A little water clears us of this deed."
F. Tragic hero: a noble person of high rank whose error in judgement leads to downfal
G. Virtuous: moral; having good qualities
H. Patriotic: loyal to one's country
I. Courageous / valiant: brave
J. Relentless bloodlust: desire for bloodshed
K. Hubris: excessive pride and arrogance
L. Hamartia: a fatal flaw in a protagonist's character that leads to his/her downfall
M. Credulous: believes others easily
N. Soliloquy: a speech to the audience - other characters do not hear this
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.
T. Façade: the appearance of honesty
U. Benevolent: kindness and generosity
V. Equivocating: to avoid committing yourself, or saying one thing but meaning another
W. Doubtful: unsure
X. Emasculated: made to feel weaker / masculinity is threatened
Y. Afflicted: suffering greatly, deeply troubled
Z. 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
CC. Remorse: guilt, regret

DD. Dread / apprehension: fear, anxiety, horror
EE. Elision: an event is not shown on stage. Duncan's murder is elided.

Witchcraft: Most Jacobeans ( $17^{\text {th }}$ C) believed in witches; witch-hunting and execution was common. King James I wrote a book called Daemonologie in which he supported and encouraged the trials of witches, who he believed were controlled by the devil.

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.

Fate versus Free Will: Jacobean Christians debated whether mankind was fated (predestined) to go to heaven or hell, or whether they had free choice. Was Macbeth fated to commit horrific deeds, or did he choose to do it out of free will?

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.

The Ideal King: kings needed integrity, loyalty to their people, and godliness.
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?

The Divine Right of Kings: The belief that monarchs were appointed by God and had absolute power over their people, being answerable only to God.
The Great Chain of Being: The belief that 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 statiog in life.


Macbeth boasts that he has nothing to fear. Yet Macduff and Malcolm's army approaches and Macbeth puts on his armour. The army use branches off trees as camouflage

Macbeth hears that Lady Macbeth is dead - we assume suicide. Macbeth is terrified to learn that the wood is starting to move. The battle commences outside the castle. Macbeth strikes everyone he can see, suddenly afraid of nothing.

Macbeth fights Macduff, only to find that Macduff was not "born of woman" but through caesarean section. Macduff triumphs, cutting off Macbeth's head. Malcolm is made king.

Macbeth's armour: Macbeth's readiness to fight and his belief that he is invincible. It also reminds us of his heroic status in 1.2.

Candle blown out: the fragility and vulnerability of life

Macbeth's decapitated head: Macbeth's body is physically distorted to reflect his unnatural and immoral acts. Links to 1.2.
39. Macduff: "Behold the usurper's cursed head."
40. Malcolm: "This dead butcher and his fiend-like queen."
36. M: "She should have died hereafter."
37. M: "Tomorrow, and tomorrow, and tomorrow."
38. M: "Out, out, brief candle."

RR. Nihilistic: a profound sense of the meaninglessness of life and morality Defiant: resisting or fighting against another power

IT. Anagnorisis: a moment of realisation
UU.Downfall: the tragic hero's destruction VV.

Nemesis: an arch-enemy

The supernatural world: Shakespeare uses these "instruments of darkness" to cast a shadow of malevolence over the play. It is ambiguous whether Macbeth acts of his own free will or whether he is the victim of the supernatural.
Macbeth, the tragic hero: Shakespeare uses Macbeth to show the destructive consequences of unchecked ambition on society, family, and one's own psychological state.
Lady Macbeth: Lady Macbeth's manipulation of her husband positions her as the catalyst of his downfall. Like Macbeth, her death serves as a warning against unchecked ambition. King Duncan: Whilst Duncan may appear to be the ideal king - he is benevolent, virtuous, and godly - his death serves as a stark warning to King James I: leaders should not be overly trusting, as this can lead to disaster.

Malcolm: Malcolm is a model for the ideal king: he is benevolent, virtuous, courageous in battle, and also cautious in trusting others.
Banquo: 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.
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.

Power: Shakespeare exposes the corrupting effect of power. He reveals the lengths people will go to in order to obtain power and hold on to it.
Ambition: Shakespeare crafts a cautionary tale about the consequences of unchecked ambition. He implies that it can never be fulfilled and therefore quickly grows into a monster that will destroy any-one who gives into it.
Guilt: Shakespeare conveys the inescapability of guilt Despite the attempts of some characters to suppress their guilt, Shakespeare shows how it will inevitably take hold and individuals must suffer the consequences of their actions.
Appearances: Shakespeare suggests that often people and events are not truly as they seem. Appearances can be deceptive and the reality behind them is often dark and unpleasant.

Regicide: Shakespeare teaches his audience a moral lesson: kill the king and pay the price. Macbeth's punishment reflects this and sends a message to any potential traitors
Fate and free will: Shakespeare asks his audience to consider the extent to which we control our own destinies. Is it Macbeth's fate to be a traitor or is he alone responsible for his actions, and did he freely choose his path?
Gender: Shakespeare challenges traditional gender norms surrounding masculinity and femininity. Denied power in a patriarchal society, Lady Macbeth rebels against the submissive role society has assigned her Shakespeare uses Lady Macbeth to show how restricting women's freedom leads to bitterness and a desire to gain power by whatever means necessary. Alternatively, Shakespeare could use Lady Macbeth to demonstrate women's inability to cope with power.

## MATHS

## Maths Homework

All maths homework will be set on Sparx. 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 <br> Spring - Foundation

Right angled triangles
in a right-angled triangle the hypotenue is the longest side and is opposite the right angle Pythagoras' theorem shows the relationship between lengths of the three sides of a right-angled triangle

A triangle with sides $a, b$, and $c$, where $c$ is the longest side is right-angled only if $\boldsymbol{a}^{2}+\boldsymbol{b}^{2}=\boldsymbol{c}^{2}$
in a right-angled triangle the side opposite the angle $\varnothing$ is called the opposite. The side next to the angle $\varnothing$ is called the
 adjacent.

Mactoru
The sine of an angle $\varnothing$ is the ratio of the opposite side to the hypotenuse. The sine of angle is written as $\sin \varnothing$ The cosine of an angle $\varnothing$ is the ratio of the adjacent side to the hypotenuse. The cosine of angle is written as $\cos \varnothing$ The tangent of an angle $\varnothing$ is the ratio of the opposite side to the adjacent side. The tangent of angle is written as $\tan \varnothing$
You can use $\boldsymbol{\operatorname { s i n }}^{-\mathbf{1}}, \boldsymbol{\operatorname { c o s }}^{-\mathbf{1}}, \boldsymbol{\operatorname { t a n }}^{\mathbf{- 1}}$ 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 and tangent of some angles may be written
exactly

|  | $30^{\circ}$ | $45^{\circ}$ | $60^{\circ}$ | $90^{\circ}$ |
| :--- | :---: | :---: | :---: | :---: |
| $\sin$ | $\frac{1}{2}$ | $\frac{1}{\sqrt{2}}$ | $\frac{\sqrt{3}}{2}$ | 1 |
| $\cos$ | $\frac{\sqrt{3}}{2}$ | $\frac{1}{\sqrt{2}}$ | $\frac{1}{2}$ | 0 |
| $\tan$ | $\frac{1}{\sqrt{3}}$ | 1 | $\sqrt{3}$ |  |

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 will happen is $\boldsymbol{P}=\frac{\text { number of successful outcomes }}{\text { total number of possible outcomes }}$
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 $=\frac{\text { number of successful trials }}{\text { total number of trials }}$ 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 more 0 sets can be shown together in a Venn diagram. Curly brackets \{\} show a set of values.
$A \cap B \quad$ Means $A$ intersection $B$. This is all the elements that are in A and in B
$A \cup B$ Means $A$ union $B$. This is all the elements that are in $A$ or $B . A^{\prime}$ 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 $=\frac{\text { actual change }}{\text { original amount }} \times 100$
Density is a compound measure. It is the mass of substance contained in a certain volume. It is usually measured in grams per cubic centimetre ( $\mathrm{g} / \mathrm{cm}^{3}$ )

$$
\text { density }=\frac{\text { mass }}{\text { volume }}
$$

Pressure is a compound measure. It is the force applied over an area. It is usually measured in pressure $=\frac{\text { force }}{\text { area }}$ newtons ( N ) per square metre $\left(\mathrm{N} / \mathrm{m}^{2}\right.$ ) . area 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....
$y \propto x$ means ' $y$ ' is proportional to $x$. When $y \propto x$ then $y=k x$, where $k$ is the constant of proportionality
$X \propto \frac{1}{Y}$ 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

$$
\frac{9}{10}=\frac{\square}{100}=\square \%
$$

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 $k^{2}$
When a shape is enlarged by linear scale factor $k$, the volume is enlarged by scale factor $k^{3}$

## 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 $\varnothing$ is called the opposite. The side next to the angle $\varnothing$ is called the adjacent.


The sine of an angle $\varnothing$ is the ratio of the opposite side to the hypotenuse. The sine of angle is written as $\sin \varnothing$
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You can use $\boldsymbol{\operatorname { s i n }}^{-1}, \boldsymbol{\operatorname { c o s }}^{-\mathbf{1}}, \boldsymbol{\operatorname { t a n }}^{-1}$ 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 and tangent of some angles may
be written exactly

|  | $30^{\circ}$ | $45^{\circ}$ | $60^{\circ}$ | $90^{\circ}$ |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\sin$ | $\frac{1}{2}$ | $\frac{1}{\sqrt{2}}$ | $\frac{\sqrt{3}}{2}$ | 1 |  |  |  |
| $\cos$ | $\frac{\sqrt{3}}{2}$ | $\frac{1}{\sqrt{2}}$ | $\frac{1}{2}$ | 0 |  |  |  |
| $\tan$ | $\frac{1}{\sqrt{3}}$ | 1 | $\sqrt{3}$ |  |  |  |  |

The sine rule can be used in any triangle to calculate a missing side:

$$
\frac{a}{\sin a}=\frac{b}{\sin b}=\frac{c}{\sin c}
$$

The cosine rule can be used in any triangle to calculate an unknown side: $a^{2}=b^{2}+c^{2}-2 b c \cos A$
The sine graph repeats every
360 degrees in both directions


The tangent graph repeats every 180 degrees in both directions


The area if this triangle is $\frac{1}{2} \boldsymbol{a b} \boldsymbol{\operatorname { s i n }} \boldsymbol{C}$

A place is a flat surface. In the diagram. BC is perpendicular to the plane WXYZ. Triangle ABC is in a plane perpendicular to the plane WXYZ
$\varnothing$ is the angle betwe

WXYZ

The graph of $y=-f(-x)$ is a reflection of the graph of $y=f(x)$ in the $x$-axis and then the $y$-axis,
or vice versa. These two reflections are equivalent to a rotation of $180^{\circ}$ 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 $\frac{{ }_{n 3}}{4}$ value The interquartile range (IQR) is UQ - LQ
A box plot (sometimes called a box - and - whisker diagram, displays a data set to show the median and quartiles. Comparative box plots are box plots for two different sets of data drawn on the same scale.
The interquartile range measures the spread of the middle $50 \%$ of the data. To describe a data set (or population) give a measure of average and a measure of spread. To compare data sets, compare a measure of average and a measure of of spread.
The median and interquartile range are not affected by extreme values of outliers. When there are extreme values, the median and interquartile range should be used rather than the mean and range.

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



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'.


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 $\mathbf{6 . 0 2 \times 1 0 ^ { 2 3 }}$


## Mole Calculations

There is a relationship between the relative formula mass $\left(M_{r}\right)$, 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."



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

NEUTRALISATION
$\mathrm{H}+$ ions formed when acids dissolved in water (aq)
$\mathbf{O H}$ - ions formed when alkali dissolved in water (aq)

$$
\begin{gathered}
\mathrm{H}^{+}(\mathrm{aq})+\mathrm{OH}^{-}(\mathrm{aq}) \rightarrow \mathrm{H}_{2} \mathrm{O}(\mathrm{I}) \\
\text { Acid + Alkali } \\
\text { Salt + Water }
\end{gathered}
$$



## 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 pH 7 is 10 times more concentrated.


Acid strength and concentration
Strong acids dissociate completely in water producing higher concentrations of $\mathrm{H}+$ ions Weak acids do not dissociate completely producing lower concentrations of $\mathrm{H}+$ 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 lodide) or biological (enzymes).

## Equilibrium

 reaction can react to produce the originat reactants. At dynamic equilibrium the rates of the forwards and backwards reactions are equal; the concentrations of the reactants and products don't change.

Le Chatelier's principle


Le Chatelier's principle states that when a change is made to the conditions of a dynamic equilibrium, the system moves to counteract the change, causing changes in quantities of reactants and products.

## COMPUTER SCIENCE

## Knowledge Organiser 3 : Data Storage

| 1. Data units |  |
| :--- | :--- |
| Bit (b) | The smallest unit of data. 0 or 1 |
| Nibble (N) | 4 bits |
| Byte (B) | 8 bits (note the difference between b and B) |
| Kilobyte (KB) | 1000 bytes. Note KB is different from Kb |
| Megabyte (MB) | 1000 KB |
| Gigabyte (GB) | 1000 MB |
| Terabyte (TB) | 1000 GB |
| Petabyte (PB) | 1000 TB |

## 2. Conversions

| Binary to Denary |
| :--- |
| Denary to Binary |
| Hexadecimal to Denary |
| Denary to Hexadecimal |
| Binary to Hexadecimal |
| Hexadecimal to Binary |
| Left Binary Shift |
| Right Binary Shift |

## 3. Operations

| Binary <br> addition | You should arrange the two binary numbers above each other so that the <br> columns line up. Start on the rightmost digit and add them. If there are any <br> carries, write them down next to the next left column. |
| :--- | :--- |
| Overflow | If the answer to the left column results in a carry, this is known as an overflow <br> and it causes an overflow error. This can cause problems if a computer <br> program hasn't been written to handle overflows. |
| Left <br> Binary <br> Shift | Make the number longer, and therefore bigger. Each place it shifts will double <br> the value. A binary left shift of one place (<<1) will double the value, a binary <br> left shift of two places (<<2) with quadruple. |
| Right <br> Binary <br> Shift | Make the number shorter, and smaller. The right most digit is "lost", so we <br> forget about it. A binary right shift of one place (written as $\gg 1$ ) halves the <br> number, and a binary right shift of two places ( $\gg 2$ ) will quarter it. |


| 7. Sound |  |
| :--- | :--- |
| Analogue / <br> Digital | Analogue sound waves must be converted into digital sound waves by <br> taking a sample of the sound at set intervals. This is because computers can <br> only work with digital 'numbers', and not analogue 'sound' |
| Sample rate | Number of times analogue signal is sampled per second. Measured in Hertz |
| Bit depth | Number of bits used per sample. Sometimes known as sample resolution |
| File size | Sample rate x sample resolution x seconds |
| Factors | Larger sample rate and/or bit depth will make the file size bigger and <br> improve the playback quality; and vice versa. Also, making the duration of <br> the recording longer will make the file size bigger, and vice versa |

## 4. Characters

| Individual <br> Characters | Each character is assigned an individual binary code to represent it. <br> The number of bits depends on the 'encoding' used |
| :--- | :--- |
| Character Set | The name given to a collection of characters matching to binary <br> codes. There are many examples. |
| Choice of <br> Character Set | A character set encoded with more bits allows more characters. This <br> is useful for accents, symbols, emojis, other languages (e.g. Chinese) |

## 5. Examples of Character Sets

| ASCII | 7 -bits to represent characters allowing 127 characters to be represented |
| :--- | :--- |
| Unicode | $16 / 24 / 32$ bits. Covers many modern and historic languages, as well as lots <br> of symbols which are used in maths and other specialist areas |

## 6. Images

| Pixel | The smallest element of a bitmap image. Pixels desk |
| :--- | :--- |
| Vector vs <br> Bitmap | A vector image describes the lines and shapes. A bitmap image consists of <br> rows of coloured dots. |
| Colour <br> Depth | The number of bits used to represent each pixel in a bitmap image. An 8 bit <br> image can show $2^{8}$ or 256 colours. |
| Resolution | In a bitmap image resolution is measured in DPI (dots per inch). The higher <br> the resolution the better the picture quality |
| Metadata | Data that is saved before and after the image to tell the computer how to <br> decode the image. It includes the size in pixels (width $\times$ height), the colour <br> depth, the resolution, the GPS location of where the image was taken, etc. |
| Image size | The size of an image is width $\times$ height $\times$ colour depth (+10\% for metadata) |
| Factors | Greater colour depth and/or greater resolution will make the file size bigger, <br> and improve the quality of the image; and vice versa |

## 8. Compression

| Compression | Compression is when a file is encoded so it uses fewer bits than <br> the original file format |
| :--- | :--- |
| Lossless compression | Gets rid of unnecessary data to re-present data without losing <br> any information. This process is reversible |
| Lossy compression | Gets rid of the least essential data. This is an irreversible process: <br> once data is lost it can't be recovered |

Ethics GCSE Religion, Peace and Conflict: Knowledge Organiser

| Important 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 sustainable. <br> Islam is Arabic means 'salam' or peace. 'As-salamu alaikum' means 'peace be with you'. | 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 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. |
| Justice | Bringing about what is right and fair, according to the law, or making up for a wrong that has been committed. |  |  |
| 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. <br> 'Just' is one of 99 names of Allah. The Bible speaks of God showing justice and forgiveness, thus Christians should show the same. | 12. Pacifism is considered an alternative to conflict. Organisations such as the Muslim Peace Fellowship and the Anglican Pacifist Fellowship all promote pacifism. Islam is a religion of peace, although the duty of jihad makes it difficult for Muslims to identify with it. |
| Forgiveness | Showing mercy and grace and pardoning someone for what they have done wrong |  |  |
| 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, police can alter the route or apply for a ban if possible violence. | 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 organisations. They provide financial help to widows and orphans as well as rehabilitation. |
| Protest | An expression of disapproval, often in a public group |  |  |
| Violence | Using actions that threaten or harm someone | 4. No religion promotes violence and generally all agree that violence should be avoided. <br> 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. | Key quotes to remember |
| Terrorism | The unlawful use of violence, usually against innocent civilians, to achieve a political goal |  | "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. However, although most religions have extreme groups in their faith. | "Do not take life, which God has made sacred" Qur'an 17:33 |
| Self-defence | Acting to prevent harm to yourself or others |  | "Know the evil of war is swift, and its taste bitter" Hadith |
| Retaliation | Deliberately harming someone as a response to them harming you | 6. 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. | 7. 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 response to the attack on the World Trade Centre in NYC. | "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 |  |  |
| 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/ weapons that contain living organisms or infective material leading to disease or death. | 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. <br> 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. <br> Christians have the $4^{\text {th }}$ Century theory on Just War -9 ways and reasons to go to war. | "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 |  |  |  |
| Greater jihad | The personal inward struggle of all Muslims to live in line with the teachings of their faith |  | "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 |  |  |

FRENCH - KNOWLEDGE ORGANISER YEAR 10
MA MAISON - MY HOUSE

| J'habite | I 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 pas de | we don't have any |
| Il y a | there is/ there are |
| Il 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 <br> ramassage | by pick-up bus |
| :--- | :--- |
| en voiture | by car |
| à vélo | by bike |
| à pied | on foot |
| un lit | a bed |
| un ordinateur <br> portable | a laptop |

COMPLEX STROCIORES

Après avoir visité Paris, je voudrais $y$ habiter

- after having visited Paris, I would like to live there.

J'ai Cintention d'habiter à París

- 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 voulaís habiter

- I used to want to live.......

| un a leisure centre |  |  |
| :--- | :--- | :--- |
| historique | untre de loisirs | - the castle |
| touristique | untation |  |
| pittoresque | un musée | - a bus station |
| elle se situe | un cinéma | - a hypermarket |
| au bord de la mer | - bicturesque the seaside | une parc d'attractions |


| une télévision | - a TV |
| :--- | :--- |
| un miroir | - a mirror |
| une patinoire | - ice skating rink |
| une poubelle | - a rubbish bin |
| (trop) bruy- | - too noisy |
| ant | - very lively |
| très vivant |  |
| ennuyeux / | - boring |
| barbant |  |



This is an increase in the amount of people living in urban areas such as towns or cities. In 2007, the UN announced that for the first time, more than $\mathbf{5 0} \%$ of the world's population live in urban areas.
than $50 \%$ of the world's population live in urban areas.
Where is Urbanisation
happening?
Urbanisation is happening
LICs and NEEs rates are
much faster than HICs. This
is mostly because of the
rapid economic growth
they are experiencing.

Causes of Urbanisation

Rural - urban migration (1) | The movement of people from rural to |
| :---: |
| urban areas. |

| - Lack of employment | - Following family members. |
| :---: | :---: |
| Natural Increase (2) | When the birth rate exceeds the death |
| rate. |  |

Megacity An urban area with over $\mathbf{1 0}$ million people living there.


Sustainable urban living means being able to live in cities in ways that do not pollute the environment and using resources in ways that ensure future generations also can use then.


Water Conservation
This is about reducing the amount of water used.

- Collecting rainwater for gardens and flushing toilets.
- Installing water meters and toilets that flush less water. Educating people on using less water.

Creating Green Space
Creating green spaces in urban Creas can improve places for people who want to live there.

- Provide natural cooler areas for people to relax in.
- Encourages people to exercise.
- Reduces the risk of flooding from surface runoff.


## Unit 2a

| Sustainable Urban Living Example: Malmo, Sweden |
| :--- |
|  <br> Location |
| Located in south <br> west Sweden. Since <br> 200, has been linked <br> by the øresund <br> Bridge across the <br> Øresund <br> to Copenhagen, <br> Denmark. |
| Malmo is known as one of the most sustainable <br> cities in the world. - Malmo has over 500km of cycle <br> tracks. 1 in every 4 journeys in Malmo is by bike. <br> People in the city collect their organic waste to <br> make biogas to power the city's busses. By 2030, <br> Malmo wants to be powered entirely by renewable <br> energy sources. At the moment, wind turbines <br> around the city power 60,000 homes. All new <br> houses in Malmo are low energy. |
| This is the linking of different forms of public and private transport within |
| a city and the surrounding area. |

Urban areas are busy places with many people travelling by different modes of transport. This has caused urban areas to experience different traffic congestion that can lead to various problems.
Environmental problems

- Traffic increases air pollution
which releases greenhouse
gases that is leading to climate

change. \begin{tabular}{c}
Economic problems <br>

- | Congestion can make people |
| :---: |
| late for work and business |
| deliveries take longer. This can |
| cause companies to lose money. | <br>

| There is a greater risk of |
| :---: |
| accidents and congestion is a |
| cause of frustration. Traffic can |
| also lead to health issues for |
| pedestrians. | <br>

Congestion Solutions
\end{tabular}

- Widen roads to allow more traffic to flow easily.
- Build ring roads and bypasses to keep through traffic out of city centres.
- Introduce park and ride schemes to reduce car use. Encourage car-sharing schemes in work places.
Have public transport, cycle lanes \& cycle hire schemes. Having congestion charges discourages drivers from entering the busy city centres.


Traffic Management Example: London
 network.
Boris Bike scheme- people can hire a bike for journeys across London Congestion Charging to limit the number of cars in the city centre
Greenbelt Area

This is a zone of land surrounding a city where new building is strictıy controlled to try to prevent cities growing too much and too fast.

The investment in the revival of old, urban areas by either improving what is there or clearing it away and rebuilding.


## HISTORY

## GCSE History. Medicine Through Time



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.


## Key events:

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:The King - 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.


## Medicine in 18th and 19th century Britain

## 18th and 19th century <br> Britain. <br> 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 $\underline{18}^{\text {th }} \&$ 19 $^{\text {th }}$ 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.

John Snow
Key people of 18th and $19^{\text {th }}$ Century medicine. Robert Koch Florence Nightingale Edward Jenner

## Key events:

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.

## Year 11 History Medicine through time.

## Medicine in modern Britain. 1900-Present.

## Modern Britain

From 1900-Present, there have been massive changes in medicine and treatment.

## Key words:

X-Ray Technology
Transplant
Radiotherapy/Che motherapy

Superbugs
Gene therapy
Dialysis
Polio
Penicillin
Pacemaker
Antibiotics
Magic bullets
Electron
microscope
DNA
Cancer


## Key Concepts:

War - World War One and World War Two forced developments in treatment and surgery - e.g. plastic surgery and the use of antibiotics in WW2.

Technology - huge improvements in technology greatly improved the understanding and treatment of disease - e.g. X-ray, DNA, Pacemakers, dialysis and keyhole surgery.

National Health Service - After WW2, the government introduced the NHS in 1948. This offered free healthcare at the point of delivery. The expansion of who could vote and the shared experience of suffering in WW2 bought about this development.

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

| Using sources key |  |
| :--- | :--- |
| words: |  |
| Source | Useful |
| Provenance |  |
| Contextual knowledge |  |
| Nature | Suggests |
| Origin | Supports |
| Purpose | Accurate |
| Evidence | Atypical |
| Typical |  |

$$
\begin{aligned}
& \text { New treatment } \\
& \text { techniques in WW1 } \\
& \text { 1. Wounds and infection: } \\
& \text {-The Carrel-Dakin method } \\
& \text { - Debridement } \\
& \text { - Amputation } \\
& \text { 2. The Thomas Splint } \\
& \text { 3. Mobile x-ray units: } \\
& \text { 4. Blood transfusions: } \\
& \text { 5. Brain surgery } \\
& \text { 6. Plastic surgery: }
\end{aligned}
$$

Possible sources of evidence about medicine 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...

## The chain of evacuation

Regimental Aid Posts (RAP)

Dressing Stations (ADS and MDS)Casualty Clearing Stations Base Hospitals

## 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 - Y 10 - Term 2

## Generación digital - The digital generation



| Somos melóman@s | We're music lovers instruments | Mis intereses personales | My personal interests | Esto es lo que <br> levo | This is what I wear |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ia música | music | los datos personales | personal data | la ropa | clothing |
| tocar | to play (an instrument) | el estado | status | llevar | to wear |
| Ia batería | the drums | la obsesión | obsession | ¿qué llevas? | what do you wear? |
| la flauta | the flute | el perfil de Internet | internet profile | llevo... | I 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 | la camiseta |  |
| el piano | the piano | cambiar mi estado | to change my status | la camiseta | t-shirt |
| 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 | cap |
| 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 |
| Quiero ser...- |  | poner efectos | to add effects | los vaqueros | jeans |
|  |  | poner filtros | to add filters | el vestido | dress |
| el/la actor/actriz | actor/actress | subir selfis | to upload selfies | las zapatillas (de | trainers |
| el/la arquitecto/a | architect |  | to upload selfies | deporte) | trainers |
| el/la bibliotecario/a | librarian | el/la médico | doctor | los zapatos | shoes |
| el/la bloguero/a | blogger | el/la pescadero/a | fishmonger | bonito/a | pretty |
| el/la carnicero/a | butcher | el/la piloto (de avión) | pilot | cómodo/a | comfortable |
| el/la científico/a | scientist | el/la policía | police officer | elegante | smart, stylish |
| el/la cocinero/a | chef | el/la profesor/a | teacher | elegante | smart, stylish |
| el/la dentista | dentist | el/la recepcionista | receptionist | guay | cool |
| el/la electricista | eletrician | el/la secretario/a | secretary | tradicional | traditional |
| el/la enfermero/a | nurse | el/la jefe | the boss | este/esta | this |
| el/la escritor | writer | la libertad | freedom | estos/estas | these |
| el/la fontanero/a | plumber | el sueldo | salary | ese/esa | that |
| el/la fotógrafo/a | photographer | agradable | pleasant | esos/esas | those |
| el/la granjero/a | farmer | estimulante | stimulating | quel/aquella | that (further away) |
| el/la jugador/a de fútbol | footballer | exigente | demanding | quel/aquella | that (further away) |
| el/la mecánico/a | mechanic | gratificante | satisfying | aquellos/aquella | those (further away) |





Key Wordsinvestigation, visual language, approaches, skilful, comparisons, risk-taking, communication, insightful, practitioners, two-dimensions, manipulate, traditional, contemporary, 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.

## Learning Aims:

A. Use investigation and experimentation processes in art and design practice.
B. 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.

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.
- Consider presentation.


Useful Websites

- www.artjournal.co.uk
www.creative-choices.co.uk/industry-insight/inside/design
- www.culture24.org.uk/
- www.fashion-era.com/C20th_costume_history
- www.graphicdesign.about.com/arts/graphicdesign
- www.masters-of-photography.com


Use investigation and experimentation 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.

### 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
```


### 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

| $\begin{aligned} & \text { AMERICAN } \\ & \text { EXPRESS } \end{aligned}$ | QASN\| |  |  |  |  |  |  | $A$ | $T$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\boldsymbol{\&}$ | 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 | $(5,000)$ | $(5,000)$ | $(5,000)$ | $(5,000)$ | $(6,000)$ | $(6,000)$ | $(6,000)$ | $(6,000)$ | $(6,000)$ |
| Utilities (energy, water and broadband) | (300) | (300) | (300) | (300) | (300) | (300) | (300) | (300) | (300) |
| Travel | (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) |
| Total Outflows | $(6,850)$ | $(7,350)$ | $(6,850)$ | $(7,350)$ | $(8,300)$ | $(8,300)$ | (7,400) | $(8,750)$ | $(8,750)$ |
| NET CASHFLOW |  |  |  |  |  |  |  |  |  |
| Closing balance | $(4,850)$ | $(5,100)$ | $(4,350)$ | 5,650 | $(5,050)$ | $(4,800)$ | $(3,400)$ | $(4,500)$ | $(4,250)$ |
| Parentheses denote negative numbers |  |  |  |  |  |  |  |  |  |

## 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 Capital - (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


trying goods before they buy customers saving money but many enjoy
 e-commerce saves on need for decisions

The nature of the business activity materials and competitors Proximity (closeness) to: customers, staff,

Factors influencing business location
1.4.2 Business Location

### 1.4 Putling a Business Idea into Practice


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 |
| :--- |
| 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. | MARKETING MIX

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 speciric 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 <br> characters? <br> The outcome for the audience. |

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?
characters?
The outcome for the audience.

## THEATRICAL SKILLS?

PHYSICAL SKILLS VOCAL SKILLS
BODY LANGUAGE PITCH
POSTURE PACE
GESTURE
MOVEMENT
SPATIAL AWARENESS USE OF LEVELS
FACIAL EXPRESSION
EYE CONTACT
PROXEMICS
VOLUME
TONE PROJECTION ACCENT INTONATION TIMING 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 |  |
| :--- | :--- |
| SEVICES |  |
| 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
© develop their own ideas
© collaborate with others
© rehearse, refine and amend their work in progress
() analyse and evaluate their own process of creating devised drama
© realise artistic intention in devised drama

## COMPONENT 2 -DEVISED THEATRE

RESPONDING TO A STIMULUS

Frantic Assembly
Physical
Theatre Company
Combines music, movement and text -inter-disciplinary Chair Duets Devised Origins

| - What ideas generally come to mind? <br> - What does this make you think of? <br> - How does the stimulus make you feel? <br> - What themes do you associate with your stimulus? <br> - Which characters do you associate with your stimulus? <br> - Which settings do you associate with your stimulus? |  |  | - What research will you undertake? <br> - What did you find out once you had completed research? <br> - What do you want to show through your character? What do you want the audience to see about them? <br> - What was the initial purpose of your piece overall? What message do you want to show? How do you want your audience to feel? |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | Expression | Gesture | Interaction | Voice | Audience |
| Gait - the way you walk. <br> 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? |
| 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 the audience to see/feel? |
| 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 |
| 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 was successful? How did the |
| emotions through your body. |  | show I wanted to ignore the other character." |  | Tone - showing your character's emotions through your voice. | audience react? |

CONSTANTIN STANISLAVSKI
NATURALISTIC

| The magic 'If' | Stanislavski said that the character should answer the question, 'What would <br> I do if I was in this situation?@. Also known as the 'magic if', this technique <br> means that the actor puts themselves into the character's situation. This then <br> stimulates the motivation to enable the actor to play the role. |
| :--- | :--- |
| Emotional <br> memory | Emotional memory is when the actor finds a real past experience where they <br> felt a similar emotion to that demanded by the role they are playing. They <br> then 'borrow' those feelings to bring the role to life. |
| Subtext | The subtext is the actual meaning and motivation behind the lines that are <br> spoken and the actions taken. |
| Objectives and <br> super-objectives | An objective is the reason for our actions. What are we trying to achieve? <br> The super-objective is an over-reaching objective, probably linked to the <br> overall outcome in the play. |
| Given <br> circumstances | The information about the character that you start off with and the play as <br> a whole. How old is the character? What's their situation in the play and in <br> relation to the other characters? |
| Method of <br> physical actions | Imagine a simple activity like cleaning your teeth and then imagine a <br> husband cleaning his teeth whilst deliberating on how to tell his wife about <br> his mistress. This is a simple illustration of how a physical action can release <br> the necessary emotions. |
| Realistic settings <br> and characters | The objective of naturalism is to create a performance that is as close to real <br> life as possible. Therefore, settings and characters should realistic. |

BERTOLT BRECHT
NON-NATURALISTIC

| Verfremdungseffekt <br> (The V effect OR the <br> alienation effect) | Distancing the audience from becoming attached emotionally to the characters/the <br> narrative by reminding them constantly they are watching a play. This enables the <br> audience to think about the subject(s) and themes of the play and possibly take action <br> rather than just being entertained. |
| :--- | :--- |
| Breaking the fourth <br> wall | Addressing or acknowledging the audience directly in order to remind them they are <br> watching a piece of theatre. |
| Gestus | Gestus is a clear character gesture or movement used by the actor that captures a <br> moment or attitude rather than delving into emotion, |
| Narration | Narration is used to remind the audience that what they're watching is a presentation <br> of a story. Sometimes the narrator will tell us what happens in the story before it has <br> happened. This is a good way of making sure that we don't become emotionally <br> involved in the action to come as we already know the outcome. |
| Placards | A placard is a sign or additional piece of written information presented on stage. Using <br> placards might be as simple as holding up a card or banner. What:s important is that the <br> information doesn't just comment upon the action but deepens our understanding of it. |
| Non-linear structure | Scenes are episodic, which means they stand alone and are constructed in small chunks, <br> rather than creating a lengthy and slow build of tension. Epic theatre often has a <br> fractured narrative that is non-linear and mumps about in time, including flashbacks/ <br> flash-forwards. |
| Spass | Making jokes/including comedy to stop the audience from connecting emationally to the <br> characters. The audience will laugh and then question why they laughea. |

## HEALTH \& SOCIAL CARE

## RO32- Health and Social Care Knowledge organiser

| Confidentiality | Respecting a persons privacy and not <br> sharing personal, sensitive information about <br> a person. |
| :--- | :--- |
| Disclosure | Making personal/sensitive information about <br> a person known to other professionals. |
| Empowerment | the process by which people gain control <br> over the factors and decisions that shape <br> their lives |
| Quality of Life | An individual's perception of their position in <br> life in relation to their health, values and <br> goals that they have. |
| Jargon | Using medical terminology that most people <br> would not be able to understand. |
| Informed Decision | Providing information to a person (both <br> positively and negatively) so that they have <br> a balanced view to make a decision. |


| Special Methods of <br> Communication in <br> Health and Social Care |  |
| :--- | :--- |
| Braille | A writing and reading system for people who have a visual <br> impairment. Raised dots represent the alphabet. Braille is read by <br> feeling those raised dots . |
| British Sign Language | A visual means of communicating that incorporates gestures, facial <br> expressions and body language. Often used by people that are <br> deaf or have hearing impairments. |
| Makaton | A language programme that uses symbols, signs and speech to <br> enable people to communicate. Used by infants to help with <br> communication or by adults/children who have a learning disability. |
| Interpreters | Assist people with little or no spoken English to ensure their health <br> care needs are appropriately met and communicated. |
| Advocate | Ensure a persons rights are being upheld, this may involve speaking <br> on a persons behalf when they cannot. |
| Voice Activated <br> Software | Assist in communicating or providing support in tasks such as turning <br> lights off. |


| Person Centered Care Values |  |
| :--- | :--- |
| Individuality | everyone has their own identity, needs, <br> wishes and beliefs |
| Rights | As set out by the Human Right Act |
| Choice | being able to make choices for themselves |
| Privacy | he right to a private space, the right to personal information <br> being kept private |
| Independence | being able to do things for themselves |
| Dignity | being treated with respect, valuing individuality and beliefs |
| Respect | showing people they have importance as an individual |
| Partnership | being involved and working with family and <br> 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: 90 s 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.


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

## SPORT

Media is the main means of mass communication
regarded collectively

| Definition -Digital Media is <br> media that operates with <br> the use of various encoded <br> machine-readable data <br> formats | Definition -Broadcast Media is <br> the inclusion of different <br> mediums that are used for <br> communicating, transmitting and <br> broadcasting to the public | Definition-Print Media is a <br> means of mass |
| :---: | :---: | :---: |
| Digital Media Sources | Broadcast Media Sources <br> commication in the form of <br> printed publications |  |
| Social Networking | TV | Print Media Sources |
| Media Sharing Sites | Rodcasts | Newspapers |
| Live Streaming |  | Magazines |
| Websites/Blogs |  |  |

Positive relationships between Media and Sport helps...
Participation
Raising the profile of less popular sports
Positive impacts of the Media and Sport

## Negative effects of the media in sport



Negative impacts of the media on sports and sports performers



## 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:

- 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, Al 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!



## In School



## ATLPSUPDORTI

Speak to your Tutor

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

