

The Rudheath Senior Academy



Powerful Knowledge Booklet

Year 10
Spring Term 2- HT2



Look, Cover, Write, Check: How to Effectively Learn and Recall Powerful Knowledge

	<p>Pick a section of your powerful knowledge sheet and read it aloud or write it down several times. Try to pick a section you’re least confident with.</p>
	<p>Cover up the section you want to test yourself on, either with a piece of paper or turn the page over so you can’t read the content beneath.</p>
	<p>Write out the powerful knowledge you can recall on a separate piece of paper.</p> <p>Trying to recall the knowledge out loud can also be effective.</p>
	<p>Check the knowledge you have recalled against your powerful knowledge sheet and repeat until you are confident recalling the section.</p> <p>Aim to spend 10 minutes on this at a time</p>



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English Powerful Knowledge- An Inspector Calls

Vocabulary	Definition
Capitalism	Economic and political system, in which a country's trade and industry are controlled by private owners for profit.
Socialism	Economic and political theory which supports production, distribution and exchange should be owned by a community as a whole (shared resources).
Omniscient	All knowing
Prejudice	A preconceived opinion which is not based on reason or actual experience
Moralistic	Making moral judgements about the behaviour of others
Narcissistic	Having or showing an excessive interest in oneself and one's physical appearance
Misogynistic	Strongly prejudiced against women
Bourgeoisie	Middle-class, typically with reference to perceived materialistic values/attitudes
Hubris	Excessive pride
Hypocrisy	Claiming to have higher standards or beliefs than you actually do
Humanitarian	A person who seeks to promote human welfare

Technique	Definition
Dramatic Irony	When the audience know more than the characters
Foreshadowing	A warning or indication of a future event
Euphemism	A mild or indirect word/phrase which is substituted for one which is considered too harsh
Colloquial Language	Informal language
Symbolism	The use of objects/characters to represent ideas or qualities
Fragmented Speech	Broken up speech
The Three Unities	A set of principles for dramatic structure that govern the action, time and place of a play

Context
Post-War Britain: Written in 1945 but set in 1912, the play contrasts the pre-WWI optimism and rigid class system with the realities of two world wars and societal change, highlighting the need for collective responsibility.
Socialism vs. Capitalism: Priestley, a socialist, critiques capitalist greed and individualism, advocating for social equality and collective welfare. This reflects the growing call for change in post-war Britain, including the establishment of the welfare state.
Class and Inequality: The play exposes the exploitation of the working class by the upper classes, using Eva Smith as a symbol of the oppressed and the Birlings as representatives of privilege and moral failure.
Generational Divide: Priestley emphasizes the hope for change through the younger generation (Sheila and Eric), contrasting their growing sense of responsibility with the stubbornness of their parents.



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Maths Powerful Knowledge

Key Terms

- Ratio:** a statement of how two numbers compare
- Equivalent:** of equal value
- Proportion:** a statement that links two ratios
- Integer:** whole number, can be positive, negative or zero
- Fraction:** represents how many parts of a whole
- Denominator:** the number below the line on a fraction. The number represents the total number of parts.
- Numerator:** the number above the line on a fraction. The top number represents how many parts are taken
- Origin:** (0,0) on a graph. The point the two axes cross
- Gradient:** The steepness of a line

Compare with ratio R

“For every dog there are 2 cats”

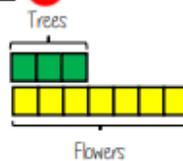


The ratio has to be written in the same order as the information is given
eg. 2:1 would represent 2 dogs for every 1 cat

Units have to be of the same value to compare ratios

Ratios and fraction R

Trees: Flowers
3 : 7



Fraction of trees

$$\frac{\text{Number of parts of in group}}{\text{Total number of parts}} = \frac{3}{10}$$

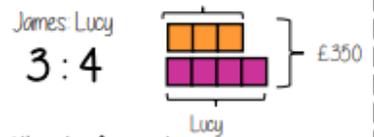
Ratio

Fraction

Sharing a whole into a given ratio R

James and Lucy share £350 in the ratio 3:4
Work out how much each person earns

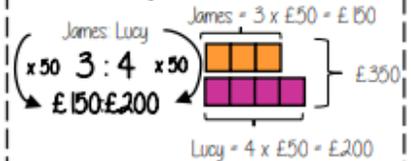
Model the Question



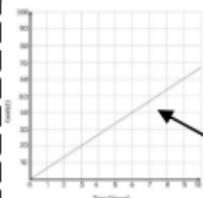
Find the value of one part

Whole: £350
7 parts to share between (3 James, 4 Lucy)
£350 ÷ 7 = £50
□ = one part = £50

Put back into the question



Ratio and graphs R



Graphs with a constant ratio are directly proportional

- Form a straight line
- Pass through (0,0)

The gradient is the constant ratio

Ratio and scale R

A picture of a car is drawn with a scale of 1:30

The car image is 10cm

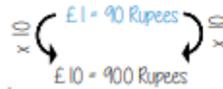


Conversion between currencies R

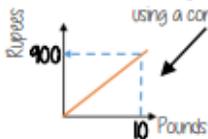


£1 = 90 Rupees ← Currency is directly proportional

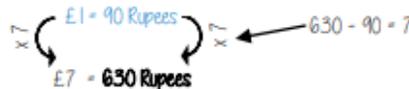
For every £1 I have 90 Rupees



Currency can be converted using a conversion graph



Convert 630 Rupees into Pounds

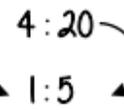


Ratios in 'n' and 'n:1' R

This is asking you to cancel down until the part indicated represents 1

Show the ratio 4:20 in the ratio of 'n'

The question states that this part has to be 1 unit. Therefore Divide by 4



This side has to be divided by 4 too - to keep in proportion

the 'n' part does not have to be an integer for this type of question

Best buys R



4 pens costs £2.60

“1 pen costs...”
 $£2.60 \div 4 = \underline{£0.65}$

“1-pound buys...”
 $4 \div 2.60 = \underline{1.54 \text{ pens}}$



10 pens costs £6.00

$£6.00 \div 10 = \underline{£0.60}$

$10 \div 6 = \underline{1.67 \text{ pens}}$

You could work out how much 40 pens are and then compare

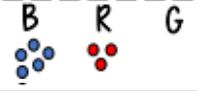
Compare the solution in the context of the question

The best value has the lowest cost “per pen”

The best value means: £1 buys you more pens

Combining ratios R

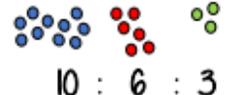
The ratio of Blue counters to Red counters is 5:3



The ratio of Red counters to Green counters is 2:1



Ratio of Blue to Red to Green



10 : 6 : 3

Use equivalent ratios to allow comparison of the group that is common to both statements

Lowest common multiple of the ratio both statements share

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Maths Powerful Knowledge

Key Terms

Exponent: how many times we use a number in multiplication It is written as a power

Compound interest: calculating interest on both the amount plus previous interest

Depreciation: a decrease in the value of something over time

Growth: where a value increases in proportion to its current value such as doubling

Decay: the process of reducing an amount by a consistent percentage rate over time

Multiplier: the number you are multiplying by

Equivalent: of equal value

Compare FDP

R

Comparisons are easier in the same format

70/100 → This also means 70 - 100 → 70 out of 100 squares → 70 "hundredths" - 7 "tenths" 0.7 → 70 hundredths - 70%

Using a calculator → This will give you the answer in the simplest form

Convert to a decimal → × 100 converts to a percentage

Be careful of recurring decimals
eg $\frac{1}{3} = 0.333333$
 $\frac{1}{3} = 0.3$
The dot above the 3

Fraction/ Percentage of amount

R

Find $\frac{3}{5}$ of £60

Remember $\frac{3}{5} = 60\% = 0.6$

10% of £60 = £6
50% of £60 = £30
60% of £60 = £36

Remember $\frac{3}{5} = 60\% = 0.6$
60% of £60 = £36

Percentage increase/decrease

R

100% → 42% → Decrease by 58%

100% - 58% = 42%

Multiplier Less than 1

100% → 12% → Increase by 12%

100% + 12% = 112%

Multiplier More than 1

Express as a percentage

R

27 per every 50 shaded → $\frac{27}{50}$

54 per every 100 shaded → $\frac{54}{100}$

54%

$\frac{13}{30} \rightarrow \frac{13}{30} \times 100 = 43.3333...%$

43%

Can't use equivalence easily to find 'per hundred'

Decimal percentages are still a percentage

Simple and compound interest

Simple Interest
James invests £2000 at 5% simple interest

Compound Interest
Tess invests £100 at 10% compound interest for 3 years

Original amount: £100
Y1: £110
Y2: £121
Y3: £132.10

The multiplier 1.10 repeats each year

Repeated percentage change

Compound Interest
Tess invests £100 at 10% compound interest for 3 years

Original amount: £100
Repeated multiplier: x 1.10
Number of occurrences: 3

Depreciation
Depreciation calculations use multipliers less than 1

Multipliers are commutative - an overall multiplier effect can be calculated by combining the multipliers separately

eg increase of 10% then a reduction of 10% → x 1.10 x 0.9 = x 0.99

Find the original value

Percentage calculations

Original amount × Multiplier = Final Value

In a test Lucy scored 60% of her questions correctly Her score was 24. How many questions were on the test?

Original x 0.6 = 24
24 ÷ 0.6 = 40 marks
100% ÷ 60% = 100% ÷ 40 = 40
Total questions on test

A car sold for a profit £3000 with a profit of 20%. How much was the car originally?

Original x 1.2 = 3000
120% = £3000
10% = £250
100% = £2500

Growth and decay

Compound growth **Compound decay**

Compound growth and compound decay are exponential graphs

Decay - the values get closer to 0
The constant multiplier is less than one

Growth - the values increase exponentially
The constant multiplier is more than one

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Maths Powerful Knowledge

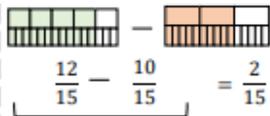
Key Terms

- Event:** one or more outcomes from an experiment
- Outcome:** the result of an experiment
- Intersection:** elements (parts) that are common to both sets
- Union:** the combination of elements in two sets
- Expected Value:** the value/ outcome that a prediction would suggest you will get
- Universal Set:** the set that has all the elements
- Systematic:** ordering values or outcomes with a strategy and sequence
- Product:** the answer when two or more values are multiplied together.

Add, Subtract and multiply fractions

Addition and Subtraction

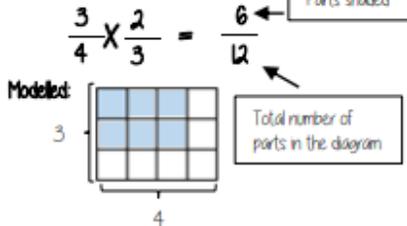
$$\frac{4}{5} - \frac{2}{3}$$



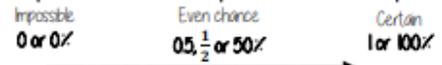
Use equivalent fractions to find a common multiple for both denominators

Multiplication

$$\frac{3}{4} \times \frac{2}{3}$$



Likelihood of a probability



The more likely an event the further up the probability it will be in comparison to another event. (It will have a probability closer to 1)

Sum to 1

Probability is always a value between 0 and 1

The probability of getting a blue ball is $\frac{1}{5}$
∴ The probability of NOT getting a blue ball is $\frac{4}{5}$

The sum of the probabilities is 1

Experimental data

Theoretical probability

What we expect to happen

Experimental probability

What actually happens when we try it out

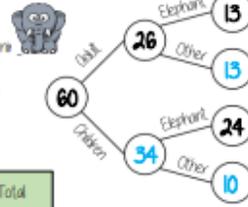
The more trials that are completed the closer experimental probability and theoretical probability become

The probability becomes more accurate with more trials
Theoretical probability is proportional

Tables, Venn diagrams, Frequency trees

Frequency trees

60 people visited the zoo one Saturday morning. 26 of them were adults. 13 of the adult's favourite animal was an elephant. 24 of the children's favourite animal was an elephant.



Frequency trees and two-way tables can show the same information

The total columns on two-way tables show the possible denominators

$$P(\text{adult}) = \frac{26}{60}$$

$$P(\text{child with favourite animal as elephant}) = \frac{24}{60}$$

Two-way table

	Adult	Child	Total
Elephant	13	24	37
Other	13	10	23
Total	26	34	60

Venn diagram



in set A AND set B

$$P(A \cap B)$$

in set A OR set B

$$P(A \cup B)$$

in set A

$$P(A)$$

NOT in set A

$$P(A')$$

Sample space

The possible outcomes from rolling a die

	1	2	3	4	5	6
H	1H	2H	3H	4H	5H	6H
T	1T	2T	3T	4T	5T	6T

The possible outcomes from tossing a coin

$$P(\text{Even number and tails}) = \frac{3}{12}$$

Independent events

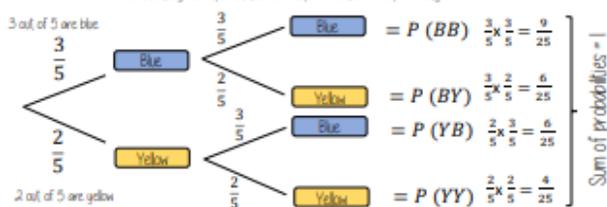
The outcome of two events happening. The outcome of the first event has no bearing on the outcome of the other

$$P(A \text{ and } B) = P(A) \times P(B)$$

Tree diagram for independent event

Isabel has a bag with 3 blue counters and 2 yellow. She picks a counter and replaces it before the second pick.

Because they are replaced (the second pick has the same probability)



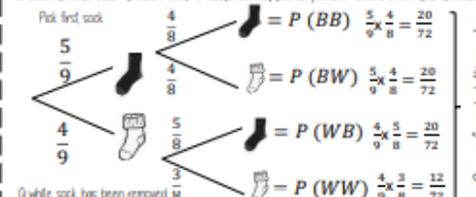
Sum of probabilities = 1

Dependent events

Tree diagram for dependent event

The outcome of the first event has an impact on the second event

A sock drawer has 5 black and 4 white socks. Jamie picks 2 socks from the drawer



Sum of probabilities = 1

NOTE: as 'socks' are removed from the drawer the number of items in that drawer is also reduced ∴ the denominator is also reduced for the second pick.

Science Powerful Knowledge

Reactions of metals

The **reactivity** of a metal is how chemically reactive it is. When added to water, some metals react very vigorously – these metals have high reactivity. Other metals will barely react with water or acid, or won't react at all – these metals have low reactivity.

Reactivity series

The reactivity series places metals in order of their reactivity. Sometimes, for example in the table below, hydrogen and carbon are included in the series, even though they are non-metals.

Reaction with water	Reaction with acid	Reactivity series	Extraction method
<ul style="list-style-type: none"> reacts very slowly no reaction 	<ul style="list-style-type: none"> reacts slowly with warm acid no reaction 	<p>High reactivity</p> <p>Decreasing reactivity</p> <p>Low reactivity</p> <ul style="list-style-type: none"> potassium sodium lithium calcium magnesium aluminium (carbon) zinc iron tin lead (hydrogen) copper silver gold 	<ul style="list-style-type: none"> electrolysis reduction with carbon mined from the Earth's crust

Metal extraction

Some metals, like gold, are so unreactive that they are found as pure metals in the Earth's crust and can be mined. Most metals exist as compounds in rock and have to be extracted from the rock. If there is enough metal compound in the rock to be worth extracting it is called an **ore**. Metals that are less reactive than carbon can be extracted by reduction with carbon. For example:

$$\text{iron oxide} + \text{carbon} \rightarrow \text{iron} + \text{carbon dioxide}$$
 Metals that are more reactive than carbon can be extracted using a process called **electrolysis**.

Reduction and oxidation

If a substance gains oxygen in a reaction, it has been **oxidised**. If a substance loses oxygen in a reaction, it has been **reduced**. For example:

$$\text{iron} + \text{oxygen} \rightarrow \text{iron oxide}$$

$$\text{iron oxide} + \text{carbon} \rightarrow \text{iron} + \text{carbon dioxide}$$
 Iron oxide has been reduced.

Salts

When acids react with metals or metal compounds, they form salts. A salt is a compound where the hydrogen from an acid has been replaced by a metal. For example nitric acid, HNO_3 , reacts with sodium to form NaNO_3 . The H in nitric acid is replaced with Na.

Acid	hydrochloric acid	sulfuric acid	nitric acid
Formula	HCl	H_2SO_4	HNO_3
Ions formed in solution	H^+ and Cl^-	2H^+ and SO_4^{2-}	H^+ and NO_3^-
Type of salt formed	metal chloride	metal sulfate	metal nitrate
Sodium salt example	sodium chloride, NaCl	sodium sulfate, Na_2SO_4	sodium nitrate, NaNO_3

The table shows how to name salts.

Displacement reactions

In a **displacement** reaction a more reactive element takes the place of a less reactive element in a compound. For example:

$$\text{copper sulfate} + \text{iron} \rightarrow \text{iron sulfate} + \text{copper}$$

$$\text{CuSO}_4(\text{aq}) + \text{Fe(s)} \rightarrow \text{FeSO}_4(\text{aq}) + \text{Cu(s)}$$
 Iron is more reactive than copper, so iron displaces the copper in copper sulfate.

Reactivity and ions

A metal's reactivity depends on how readily it forms an **ion** by losing electrons. In the displacement reaction of copper sulfate and iron, iron forms an ion more easily than copper. At the end of the reaction you are left with iron ions, not copper ions.

Ionic equations (HT only)

When an ionic compound is dissolved in a solution, we can write the compound as its separate ions. For example, $\text{CuSO}_4(\text{aq})$ can be written as $\text{Cu}^{2+}(\text{aq})$ and $\text{SO}_4^{2-}(\text{aq})$. The displacement reaction of copper sulfate and iron can be written as:

$$\text{Fe(s)} + \text{Cu}^{2+}(\text{aq}) + \text{SO}_4^{2-}(\text{aq}) \rightarrow \text{Fe}^{2+}(\text{aq}) + \text{SO}_4^{2-}(\text{aq}) + \text{Cu(s)}$$
 The SO_4^{2-} is unchanged in the reaction – it is a **spectator ion**. Spectator ions are removed from the equation to give an **ionic equation**:

$$\text{Fe(s)} + \text{Cu}^{2+}(\text{aq}) \rightarrow \text{Fe}^{2+}(\text{aq}) + \text{Cu(s)}$$
 Metals, covalent substances, and solid ionic substances do not split into ions in the ionic equation.

Steps for writing an ionic equation (HT only)

- 1 check symbol equation is balanced
- 2 identify all aqueous ionic compounds
- 3 write those compounds out as ions
- 4 remove spectator ions.

Reduction and oxidation: electrons (HT only)

Oxidation and reduction (**redox** reactions) can be defined in terms of oxygen, but can also be defined as the loss or gain of electrons. Oxidation is the loss of electrons, and reduction is the gain of electrons. In the example displacement reaction:

- iron atoms have been oxidised
- copper ions have been reduced.

Half equations (HT only)

In the displacement reaction, an iron atom loses two electrons to form a iron ion:

$$\text{Fe(s)} \rightarrow \text{Fe}^{2+}(\text{aq}) + 2\text{e}^-$$
 A copper ion gains two electrons to form a copper atom:

$$\text{Cu}^{2+}(\text{aq}) + 2\text{e}^- \rightarrow \text{Cu(s)}$$
 These two equations are called **half equations** – they each show half of the ionic equation.

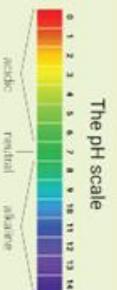
Acids and alkalis

Acids are compounds that, when dissolved in water, release H^+ ions. There are three main acids: sulfuric acid H_2SO_4 , nitric acid HNO_3 , and hydrochloric acid HCl . **Alkalis** are compounds that, when dissolved in water, release OH^- ions. The **pH scale** is a measure of acidity and alkalinity. It runs from 1 to 14.

- Aqueous solutions with $\text{pH} < 7$ are acidic.
- Aqueous solutions with $\text{pH} > 7$ are alkaline.
- Aqueous solutions with $\text{pH} = 7$ are neutral.

Indicators

- Indicators can show if something is an acid or an alkali.
- **Universal indicator** can also tell us the approximate pH of a solution.
- Electronic pH probes can give us the exact pH of a solution.



Science Powerful Knowledge

Systems

A **system** is an object or group of objects.
Whenever anything changes in a system, energy is transferred between its stores or to the surroundings.

A **closed system** is one where no energy can escape to or enter from the surroundings. The total energy in a closed system never changes.

Energy stores

- kinetic** energy an object has because it is moving.
- gravitational potential** energy an object has because of its height above the ground
- elastic potential** energy an elastic object has when it is stretched or compressed
- thermal (or internal)** energy an object has because of its temperature (the total kinetic and potential energy of the particles in the object)
- chemical** energy that can be transferred by chemical reactions involving foods, fuels, and the chemicals in batteries
- nuclear** energy stored in the nucleus of an atom
- magnetic** energy a magnetic object has when it is near a magnet or in a magnetic field
- electrostatic** energy a charged object has when near another charged object

Energy transfers

- Energy can be transferred to and from different stores by:
- Heating** Energy is transferred from one object to another object with a lower temperature.
 - Waves** Waves (e.g. light and sound) can transfer energy.
 - Electricity** An electric current transfers energy.
 - Forces (mechanical work)** Energy is transferred when a force moves or changes the shape of an object.

Examples of energy transfers

When you stretch a rubber band, energy from your chemical store is mechanically transferred to the rubber band’s elastic potential store.

When a block is dropped from a height, energy is mechanically transferred (by the force of gravity) from the block’s gravitational potential store to its kinetic store.

When this block hits the ground, energy from its kinetic energy store is transferred mechanically and by sound waves to the thermal energy store of the surroundings.

The electric current in a kettle transfers energy to the heating element’s thermal energy store. Energy is then transferred by heating from the heating element’s thermal energy store to the thermal energy store of the water.

When an object slows down due to friction, energy is mechanically transferred from the object’s kinetic store to its thermal store, the thermal store of the object it is rubbing against, and to the surroundings.

Work done

When an object is moved by a force **work** is done on the object. The force transfers energy to the object. The amount of energy transferred is equal to the work done. You can calculate the work done (and the energy transferred) using the equation:

work done (J) = force (N) x distance moved along the line of action of the force (m)

Calculating the energy in an energy store

An object’s gravitational potential energy store depends on its height above the ground, the gravitational field strength, and its mass.

gravitational potential energy (J) = mass (kg) x field strength x height (m)

$E_p = mgh$

An object’s kinetic energy store depends only on its mass and speed.

kinetic energy (J) = 0.5 x mass (kg) x (speed)² (m/s)

$E_k = \frac{1}{2}mv^2$

The elastic potential energy store of a stretched spring can be calculated using:

elastic potential energy (J) = 0.5 x spring constant (N/m) x (extension)² (m)

$E_e = \frac{1}{2}kx^2$ (assuming the limit of proportionality has not been exceeded)

Power

Power is how much work is done (or how much energy is transferred) per second. The unit of power is the watt (W).

1 watt = 1 joule of energy transferred per second

power (W) = $\frac{\text{energy transferred (J)}}{\text{time (s)}}$

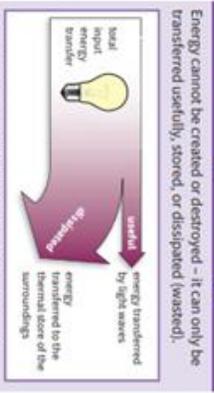
$P = \frac{E}{t}$

or

power (W) = $\frac{\text{work done (J)}}{\text{time (s)}}$

$P = \frac{W}{t}$

Useful and dissipated energy



Energy is never entirely transferred usefully – some energy is always dissipated, meaning it is transferred to less useful stores.

All energy eventually ends up transferred to the thermal energy store of the surroundings.

In machines, work done against the force of friction usually causes energy to be wasted because energy is transferred to the thermal store of the machine and its surroundings.

Lubrication is a way of reducing unwanted energy transfer due to friction.

Streamlining is a way of reducing energy wasted due to air resistance or drag in water.

Use of thermal insulation is a way of reducing energy wasted due to heat dissipated to the surroundings.

Efficiency

Efficiency is a measure of how much energy is transferred usefully. You must know the equation to calculate efficiency as a decimal:

efficiency = $\frac{\text{useful output energy transfer (J)}}{\text{total input energy transfer (J)}}$

or

efficiency = $\frac{\text{useful power output (W)}}{\text{total power input (W)}}$

To give efficiency as a percentage, just multiply the result from the above calculation by 100 and add the % sign to the answer.

Key terms

- Make sure you can write a definition for these key terms.
- closed system
 - disipated
 - efficiency
 - elastic potential
 - electrostatic
 - gravitational potential
 - kinetic
 - friction
 - lubrication
 - magnetic
 - nuclear
 - power
 - streamlining
 - system
 - thermal
 - work done

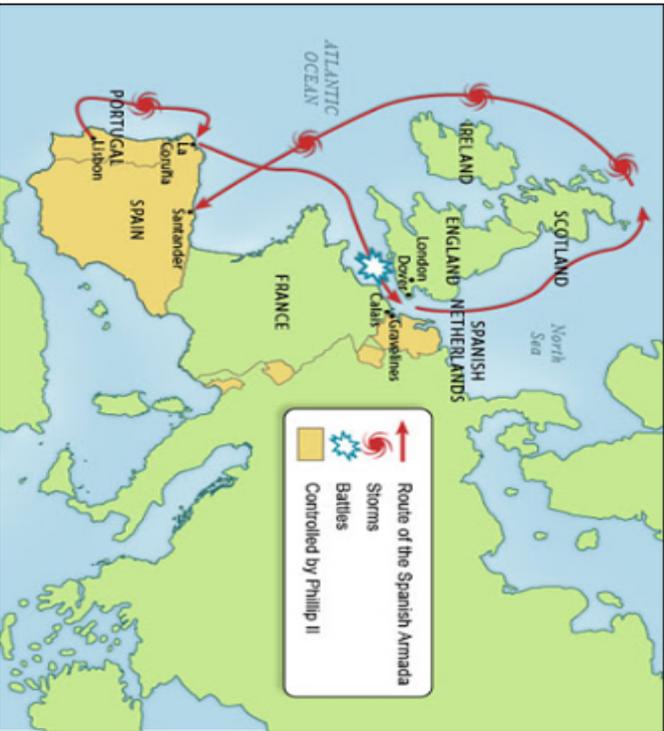


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History Powerful Knowledge

Key Terms		Question types
Revolt of the Northern Earls	Privateers	Describe two features of ... [4] (2 x 2 = 4 marks total)
Revolt	Pirates whose activities are legal and in service of the Crown	Identify 2 features and support with evidence. Useful phrases: "One feature was..." "For example"
Earl	The Spanish Armada	"Explain why..." [12] 3 PEE paragraphs about the reasons for an event/change/threat. The paragraphs must show a link to the question. Useful phrases: "This shows that...because..." "Another reason is...this is because..."
Mass	A senior noble who played an important role in governing England	"How far do you agree..." [16] A balanced answer discussing both sides of the argument with an overall conclusion. Useful phrases: "It is debatable whether..." "Some might agree that..." "This is shown by..."
Plot	A Catholic church service	
Plot	A Catholic church service	
Plot	A planned rebellion or attack – normally one which is not carried out	
Double Agent	Someone who pretends to be on one side but is actually on the other	
Spymaster	Francis Walsingham, Elizabeth's chief spy, responsible for her security	
Jesuits	Extreme Catholics carrying out the wishes of the Pope	
Incriminate	To find evidence of someone's involvement in a crime	
New World	Reasons for the Spanish Armada	
	The continents of North and South America – dominated by Spain	
	Gloriana	
	Comptroller	
	Admiral	
	Tilbury	
	Cadiz	
	Spain's main western port – the site of much of the Armada preparations	
	The south-eastern port from where Elizabeth spoke and inspired her fleet	
	The most senior commander of a fleet	
	Someone who supervises the financing and organisation of a project	
	The image of Elizabeth as divine, powerful and in control	



Sample exam questions
<p>Describe two features of the Revolt of the Northern Earls in 1569. [4]</p> <p>Describe two features of the Ridolfi plot of 1571. [4]</p> <p>Describe two features of the Throckmorton plot of 1583. [4]</p> <p>Describe two features of the Walsingham plot of 1586. [4]</p> <p>Describe two features of the execution of Mary, Queen of Scots in 1587. [4]</p> <p>Describe two features of English involvement in the Spanish Netherlands. [4]</p> <p>Describe two features of Spanish preparations for the Armada. [4]</p> <p>Describe two features of Drake's raid on Cadiz. [4]</p> <p>Describe two features of the Spanish plan to invade England in 1588. [4]</p> <p>Describe two features of the English defence against the Armada in 1588. [4]</p> <p>Describe two features of the leadership of the English fleet in 1588. [4]</p> <p>Describe two features of the Spanish fleet in 1588. [4]</p> <p>Explain why the Revolt of the Northern Earls took place in 1569. [12]</p> <p>Explain why the Ridolfi plot of 1571 increased tension between Protestants and Catholics. [12]</p> <p>Explain why the Throckmorton plot of 1583 was a threat to Elizabeth. [12]</p> <p>Explain why Sir Francis Walsingham was effective at dealing with Catholic plots between 1573 and 1586. [12]</p> <p>Explain why Philip II ordered the invasion of England in 1588. [12]</p> <p>Explain why Elizabeth authorised intervention in the Netherlands between 1578 and 1588. [12]</p> <p>Explain why the Spanish Armada was defeated in 1588. [12]</p> <p>Political grievances were the main cause of the Revolt of the Northern Earls in 1569. How far do you agree? [16]</p> <p>The Babington Plot was the greatest threat to Elizabeth's rule in the period 1569-86. How far do you agree? [16]</p> <p>The execution of Mary, Queen of Scots was the main reason for the Spanish Armada in 1588. How far do you agree? [16]</p> <p>Effective leadership was the main reason for English victory over the Spanish Armada in 1588. How far do you agree? [16]</p>

History Powerful Knowledge

HT2
Y10

GCSE History Paper 2: Early Elizabethan England KT2: Challenges at Home and Abroad



Lord Charles Howard



Lord Howard was a cousin of Queen Elizabeth and Earl of Nottingham. Through his family connections he achieved the rank of Lord High Admiral of the English fleet. However, he was a natural born leader with an excellent tactical mind, and was a deserving leader of the English defence. His most notable contribution to the defeat of the Armada was the decision to send fire ships towards the Spanish fleet. He was responsible for the larger part of England’s fleet.



Sir Francis Drake



Sir Francis Drake was the greatest sailor alive. He was the first captain to successfully circumnavigate the globe in 1580, and inspired such terror in the Spanish that they nicknamed him ‘El Draque’ – the Dragon. He had been very successful in stealing Spanish treasure and had made Elizabeth lots of money – one notable capture paid off England’s entire national debt. He was born to humble origins but rose up the ranks through his talent. His men adored him. He was second in command of England’s forces.



Duke of Medina Sidonia



Medina Sidonia was not a natural choice to lead an invasion fleet. He had never fought at sea before and complained of seasickness and colds. His own mother wrote a letter to the king complaining of the appointment. However, he was very wealthy and powerful, and proved to be an excellent planner – his preparations for the Armada were superb. Ultimately, his inexperience in battle proved to be costly as a number of mistakes and missed opportunities helped contribute to the Spanish defeat.



Political and diplomatic rivalry



Religious Factors



English interference in the Netherlands



Revolution of Mary, Queen of Scots in 1581

Trade and Pracy

Factors leading to the Armada



Reasons for defeat of the Spanish Armada

English	Spanish
<ul style="list-style-type: none"> Excellent leadership Drake’s actions in Cadiz causing disruption and delay Innovative English tactics such as fire ships Home advantage – knowledge of the local area More effective weapons 	<ul style="list-style-type: none"> poor leadership – lack of experience and lack of flexibility Complicated plan Lack of communication Impractical tactics and weapons Neither The wind and stormy seas

Reasons for the Revolt of the Northern Earls

Political	Religious	Personal
Elizabeth had weakened many northern nobles by removing land and power. The Council of the North, traditional nobility, had taken over government of the north. They also demanded Elizabeth remove her ‘evil councillors’.	The Catholic Northern Earls began the rebellion with mass. They wore Catholic emblems and demanded return to Catholicism and an end to Mary, Queen of Scots’ imprisonment, planning to remove her to the Catholic dukedom of Norfolk.	Many nobles were facing financial hardship as a result of their loss of land. They also feared punishment for planning the Norfolk wedding so rebelled out of desperation. Many of the rebels acted rashly and without thinking.

Reasons for the failure of the Revolt of the Northern Earls

Lack of strong leadership	The Earls of Northumberland and Westmorland were not capable leaders, and panicked.
Lack of clear plan	The earls couldn’t decide if they wanted Mary to immediately replace Elizabeth, or just be named as her heir.
Lack of domestic support	The leaders’ appeal to other Catholic nobles was ineffective.
Lack of foreign support	The three key Catholic powers – Spain, France, and the Pope, failed to offer their support for the revolt.
Decisive response	Elizabeth raised a large army commanded by Sussex.

The Ridolfi Plot 1571	The Throckmorton Plot 1583	The Babington Plot 1586
<p>Plan: Mary, Queen of Scots used an Italian banker called Roberto Ridolfi to attempt to coordinate an invasion of England by the Pope and Philip II of Spain. An invasion from the Netherlands led by the Spanish Duke of Alva would restore Catholicism, and the Catholic Duke of Norfolk would marry Mary, who would become queen.</p> <p>What happened? Ridolfi met with Alva but Spain wouldn’t commit to supporting the plan until Elizabeth had already been overthrown. Elizabeth’s spies found details of the plot and arrested the Duke of Norfolk. The plot fell apart.</p> <p>Outcome: The Duke of Norfolk was executed. The plot increased fears of Catholic interference in Elizabeth’s reign and she came under pressure to take a tougher stance.</p>	<p>Plan: The plan, probably concocted by an English Catholic called Francis Throckmorton, was for a simultaneous Catholic uprising in England and an invasion by the French Duke of Guise, all financed with Spanish money. The plot would put Mary on the throne, restore Catholicism and potentially kill Elizabeth.</p> <p>What happened? Throckmorton’s house was searched by Elizabeth’s spies. A list of English Catholic sympathisers was found, including some in Elizabeth’s court. The plot never got anywhere as expected Spanish funding never arrived.</p> <p>Outcome: Elizabeth’s advisors began to actively search for Mary’s involvement in plots, as they felt that they would never stop while she lived. Spanish ambassador was expelled.</p>	<p>Plot: Sir Anthony Babington wrote to Mary, who was unaware she was under surveillance, with a plan for a foreign Catholic invasion of England, the installation of Mary on the throne, and crucially, the murder of Elizabeth.</p> <p>What happened? Mary responded to the letters, and Elizabeth’s spies allowed the correspondence to continue. Eventually, Mary wrote in a letter details of Elizabeth’s assassination. Satisfied she could no longer deny her guilt, Elizabeth’s spies arrested Mary for treason.</p> <p>Outcome: Most of the plotters were rounded up and immediately executed. After months of delay, Elizabeth signed Mary’s death warrant and she too was executed.</p>

Geography Powerful Knowledge

What is Urbanisation?

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 50% of the world’s population live in urban areas.

Where is Urbanisation happening?

Urbanisation is happening all over the world but in 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)

Push	Pull
<ul style="list-style-type: none"> Natural disasters War and Conflict Mechanisation Drought Lack of employment 	<ul style="list-style-type: none"> More jobs Better education & healthcare Increased quality of life. Following family members.

Natural Increase (2)

When the birth rate exceeds the death rate.

Increase in birth rate (BR)

- High percentage of population are child-bearing age which leads to high fertility rate.
- Lack of contraception or education about family planning.

Lower death rate (DR)

- Higher life expectancy due to better living conditions and diet.
- Improved medical facilities helps lower infant mortality rate.

Types of Cities

Megacity An urban area with over 10 million people living there.

More than two thirds of current megacities are located in either NEEs (Brazil) and LICs (Nigeria). The amount of megacities are predicted to increase from 28 to 41 by 2030.

Sustainable Urban Living

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 them.

Water Conservation	Energy Conservation
<p>This is about reducing the amount of water used.</p> <ul style="list-style-type: none"> Collecting rainwater for gardens and flushing toilets. Installing water meters and toilets that flush less water. Educating people on using less water. 	<p>Using less fossil fuels can reduce the rate of climate change.</p> <ul style="list-style-type: none"> Promoting renewable energy sources. Making homes more energy efficient. Encouraging people to use energy.
Creating Green Space	Waste Recycling
<p>Creating green spaces in urban areas can improve places for people who want to live there.</p> <ul style="list-style-type: none"> Provide natural cooler areas for people to relax in. Encourages people to exercise. Reduces the risk of flooding from surface runoff. 	<p>More recycling means fewer resources are used. Less waste reduces the amount that eventually goes to landfill.</p> <ul style="list-style-type: none"> Collection of household waste. More local recycling facilities. Greater awareness of the benefits in recycling.

Unit 2a

Urban Issues & Challenges

Sustainable Urban Living Example: Curitiba

Background & Location	Sustainable Strategies
<p>Capital of Parana State in south east Brazil. Suffered expected problems from rapid urban growth: unemployment, congestion, lack of services, favelas.</p>	<ul style="list-style-type: none"> Transport – speedy eco-buses (4000 passengers per bus per day) Parks – 28 parks/open spaces Housing – site & service (like Rio) Waste – 2/3 recycled Economy – CIC built – 50,000 jobs, 150,000 indirect jobs

Greenbelt

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

Brownfield Site

Brownfield sites is an area of land or premises that has been previously used, but has subsequently become vacant, derelict or contaminated.

Traffic Management

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	Social Problems
<ul style="list-style-type: none"> Traffic increases air pollution which releases greenhouse gases that is leading to climate change. 	<ul style="list-style-type: none"> There is a greater risk of accidents and congestion is a cause of frustration. Traffic can also lead to health issues for pedestrians.
Economic problems	Congestion Solutions
<ul style="list-style-type: none"> Congestion can make people late for work and business deliveries take longer. This can cause companies to loose money. 	<ul style="list-style-type: none"> Widen roads Build ring roads and bypasses to keep through traffic out of city centres. Introduce park and ride Encourage car-sharing schemes Have public transport, cycle lanes & cycle hire schemes. Having congestion charges discourages drivers from entering the busy city centres.

Traffic Management Example: Leeds

- Guided bus routes on A64 Crossgates to city centre
- Modern, cleaner, bendy buses in city centre
- New Park & Ride at Elland Road (1 of 7 around Ring Road)
- Car Share Priority Lanes on Ring Road in East Leeds
- Free bus pass for people in Harehills (poverty)
- Priority parking for electric cars
- Congestion Charge proposed for city
- Pedestrian zones in centre
- 20mph zones around schools/residential areas
- Urban Traffic Control (UTC) – up-to-date traffic info
- Bus only lanes through Headingley (student area) into city and Universities
- Clean Air Zone for Leeds approved

HT2

Y10

Spanish Powerful Knowledge

Connectives/Conjunctions

- y - and
- también - also
- o - or
- con - with
- porque - because
- ya que - because
- si - if
- pero - but
- sin embargo - however
- al otro lado - on the other hand
- aunque - whatever
- mientras que - whilst
- además - furthermore
- como - like, as
- por ejemplo - for example
- entonces - therefore
- así que - so/therefore
- afterwards - fortunately
- antes/después - unfortunately
- debido a - because of
- gracias a - thanks to

Sequencing words

- primero - firstly
- entonces - then
- luego - next
- después - after
- más tarde - later
- finalmente - finally

Positive opinions

- Me encanta - I love
- Me gusta - I like
- Me gusta mucho - I really like
- Prefiero - I prefer
- Me gusta - I love
- Me gusta - I love
- Me encanta - I'm interested in
- Lo que me gusta es - what I like is
- Lo mejor es - The best thing is
- Me encanta - I love
- Me gusta - I like

Negative opinions

- Odio - I hate
- No me gusta - I don't like
- No me gusta nada - I don't like it at all
- Detesto - I loathe
- No quiero - I don't want
- No es para mí - It's not my thing/cup of tea!
- Estoy en contra - I am against
- Odio - I hate

Adverbs / Qualifiers

- muy - very
- bastante - quite
- solamente - really
- un poco - a bit
- mucho - lots
- demasiado - too much
- así - after
- siempre - always
- tan - so
- muchísimo - extremely

Positive adjectives

- encantador/a - fantastic
- genial - great
- fenomenal - great
- bueno/a - good
- interesante - interesting
- importante - important
- divertido/a - fun
- asombroso/a - brilliant/amazing
- increíble - incredible
- emocionante - exciting
- impresionante - impressive
- agradable - nice
- útil - useful
- práctico/a - practical
- fácil - easy
- delicioso/a - delicious
- guapo/a - beautiful/ attractive

Giving an opinion

- En mi opinión - In my opinion
- Pienso que - I think that
- Creo que - I believe that
- Desde mi punto de vista - according to me
- Para mí - For me

Negative adjectives

- malo/a - rubbish
- mediocre/a - boring
- tedioso/a - boring
- tonto/a - stupid
- horrible - boring
- horrible/a - awful
- molesto - annoying
- un rollo - annoying / a pain
- desagradable - unpleasant
- aburrido/a - boring/boring
- trivial - uninteresting
- difícil - difficult
- desagradable - disgusting
- feo/a - ugly



HT2

Design & Technology Powerful Knowledge

Y10

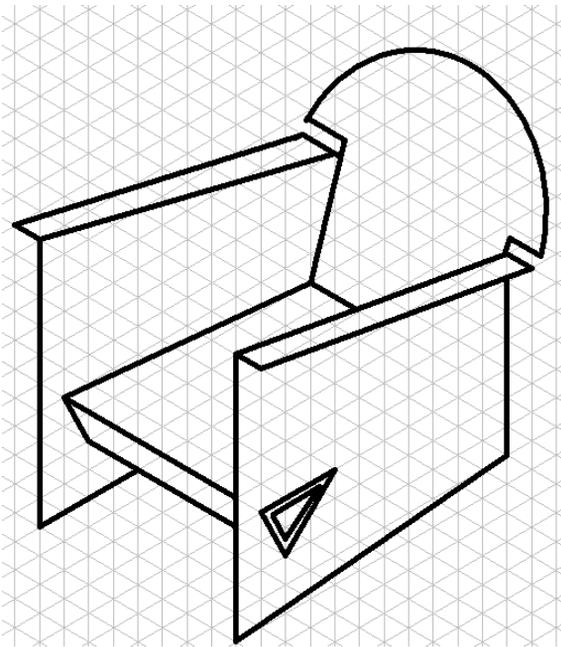
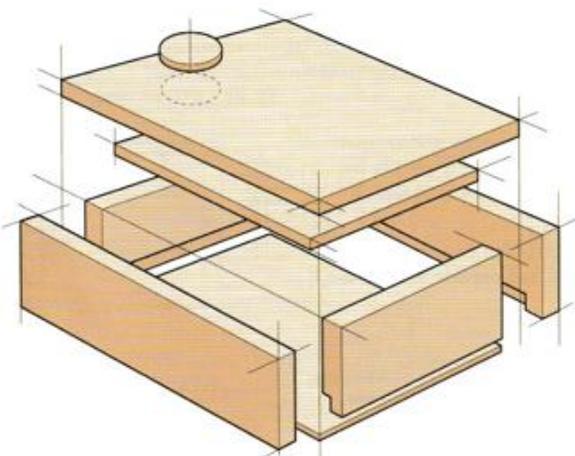
Designing for a purpose.

During this term students will be looking designing a piece of 'Flatpack Self Assembly Furniture'. They will be looking at and developing models and a prototype from various materials,

Looking at :

- Product Safety
- Standards that have to be met
- When designing a product.
- The kite mark
- Quality Control
- Quality Assurance
- How to draw an Exploded view.
- How to draw and construct a prototype
- Card model of your chair.
- How to draw an Isometric CAD drawing.

Main design influence	Example	Main design influence	Example
Aesthetics Chair designed by Verner Panton, made from a single piece of plastic		Anthropometric data Child's high chair	
Cost Plastic chairs are moulded quickly and cheaply		Environment Recycled shopping trolley chair	
Ergonomics Häg Balans chair		Function Folding chair	
Materials Designer Frank Gehry's wobble side chair from corrugated cardboard		Use Inflatable pool chair	



The CE mark



The BSI kite mark

EPOS
Electronic point of sale



Music Powerful Knowledge

Y10

What are we learning about?

- How do we describe a melody?
- Keywords
- How do I practice Score analysis?
- How do you identify a Chord within a Score for multiple instruments?
- Where do we find Cadences?
- Self-Assessment

Keywords for this Half Term

Ascending / Descending
Oboe
Bassoon
Anacrusis
Flute
Inversion
Stab Chords
French Horn
Cadence

A:
How do we describe a melody?

Basic way to describe a melody

- pitch** – whether the musical notes are high, middle or low sounding. Often called register.
- ascending** – the melody is rising in pitch.
- descending** – the melody is going lower in pitch.

Further ways to describe a melody

- conjunct** – The melody is mainly moving in steps.
- disjunct** – The melody has more leaps.
- tritone** – Uses the notes of a triad.
- scales** – when it goes up in a series of 8 notes or down.
- arpeggio** – When the notes of a chord are played separately and in succession.

Enhanced ways to describe a melody

- diatonic** – the notes belong to the key.
- chromatic** – the melody moves in semitones. The notes don't belong to the scale.
- repetition** – when the musical ideas are repeated.
- sequence** – repetition of a musical idea at a higher or lower.
- blues notes** – notes used in jazz to make it sound jazzy. Flattened notes in a jazz scale.
- improvisation** – a melody made up on the spot. Sounds impressive. Heard in jazz and also pop.
- riff** – a short repeated phrase. Often found in popular music.
- ornamentation** – used to 'decorate' a melody – trills, acciaccatura, appoggiatura.
- fanfare** – a musical announcement based on the notes of a chord.

B:	Keywords
Ascending / Descending	Movement up and down
Oboe	High pitched woodwind instrument with a Reed
Bassoon	Low pitched woodwind instrument with a Reed
Anacrusis	Upbeat to a piece of Music
Flute	High pitched woodwind instrument
Inversion	Type of change related to a Chord or difference in Pitch
Stab Chords	Very sudden quick Chord
French Horn	Circular Brass instrument
Cadence	Ending of a Phrase

C:
How do I practice Score analysis?

Ornaments

- Trill** Rapid alternation between two notes.
- Appoggiatura** the grace note takes half the value of the main note and often the note above or below.
- Acciaccatura** a very quick note before the main note.
- Glissando** a slide between two notes.

Key

Order of Flats and Sharps

Sharps →
Fridas Can Go Dancing And Eat Burgers

← Flats

D:
How do you identify a Chord within a Score for multiple instruments?

Treble clef A high register overall. Used for instruments such as flute, violin.

Treble Clef Notes

Line Notes: E F G A B C D E F
Space Notes: E G B D F

Fingering: Lines: Green Buses Drive Fast Always

Bass clef A low register overall. Used for instruments such as cello, bass.

Fingering: Lines: Green Buses Drive Fast Always

Alto clef A middle register. Used for viola mainly.

When the C Clef is around the center line of the staff, it is called the alto clef. All notes on the 3rd line will be middle C.

Dominant 7th chord Chord V in a key, with the added seventh on top.

Chords: Write out a chord chart for the key (with all 7 chords and also add sevenths onto chords I, V, VII) e.g.:

Chord	Root (R)	Third (3)	Fifth (5)	Seventh (7)
I	C	E	G	B
ii	D	F	A	C
iii	E	G	B	D
IV	F	A	C	E
V	G	B	D	F
vi	A	C	E	G
vii	B	D	F	A

	Semibreve	4 beats
	Minim	2 beats
	Crotchet	1 beat
	Quaver	1/2 beat
	Semi-quaver	1/4 beat



HT2

Y10

Drama Powerful Knowledge

Stimulus

- A stimulus is a starting point to generate ideas. It may be a picture, song, poem, short story, object, or even just a word!
- It is meant to be explored, discussed and used to create an original piece of drama.
- The final piece of drama does **NOT** need to resemble any starting stimulus – the stimulus is simply the starting point in order to generate ideas to explore.
- For your project, EDUQAS provides you with a range of stimuli to choose from.

Practitioner

Remember: Your piece needs to be influenced by one practitioner. Ensure that this is explicit with the most amount of skills used and focuses on the same aim as they do. If not, you can not reach the higher bands.

Vocal Skills	Definition	Example
P - Pitch	How high or low you voice sounds.	High squeaky voice or low deep voice.
I – Intonation	How clearly you speak	Mumbling or saying every word clearly
P - Pace	The speed in which you speak	Fast or slow
E – Emphasis	The importance you put on certain words	Using volume or pause to highlight a word. I <i>(pause)</i> AM right
D - Dynamics	The volume that you are speaking at.	Loudly or quietly
B – Breath Control	How many breaths you take in a sentence.	Do you take lots of breaths or none at all
A - Accent	The way you pronounce words	America, Australian, Jamaican, British
P - Pause	How many breaks you take	I am <i>(pause)</i> NOT going to see you again

Physical Skills	Definition	Example
P - Posture	The way you	Hunched back, straight back
E – Eye Contact	Where you are looking	Staring, looking at the floor, quickly looking
T - Tension	How tight or relaxed your body is	Clenched fists, locked knees
F – Facial Expression	How you are modifying your face	Closed Eyes, Wide open mouth
L - Levels	The heights used within the performance.	Standing on toes, crawled up in a ball
A - Action	Movements that have specific meanings	Thumbs up, waving, peace sign
G - Gait	The way you are walking	Skipping, stomping, floating
S - Space	The area that you are using	Are you standing close or far away

HT2

Y10

BTEC Sport**FLEXIBILITY TEST****The Sit and Reach Test Measures Leg and Back Flexibility****Sit and Reach Test — Standard procedure**

Equipment: tape measure, box.

- 1) The sports performer sits on the floor with their legs straight out.
- 2) A box is placed flat against the sports performer's bare feet.
- 3) The sports performer reaches forward as far as they can.
- 4) Another person measures the distance from their feet to where they reach with a tape measure.
- 5) The sports performer gets three turns. Their best score is recorded.
- 6) The results of this test are usually given in centimetres (cm) or inches.

**SPEED TEST****The 30 Metre Sprint Test has a Standing Start****30 Metre Sprint Test — Standard procedure**

Equipment: tape measure, cones, stopwatch.

- 1) 30 metres is marked out on a flat running surface using a tape measure.
- 2) On the word 'GO', the sports performer runs the 30 metres as fast as they can.
- 3) Another person uses a stopwatch to time how long it takes.
- 4) The sports performer gets three turns (with a few minutes to recover in between).
- 5) Their best score is recorded.
- 6) The results of this test are usually given in seconds.





HT2

Y10

I.T. Powerful Knowledge

R093 Creative iMedia in the media industry

<p>Unit: R093 Creative iMedia in the media industry</p> <p>Purpose of Unit:</p> <ul style="list-style-type: none"> To gain an overview of the media industry, covering both traditional and new media sectors To understand the legal and ethical issues associated with the production of media To explain how media products convey meaning, create impact and engage audiences 	
<p>Key Learning/Knowledge:</p> <ul style="list-style-type: none"> What is the difference between traditional and new media? How do certain job roles contribute to the creation of media products? What are the different purposes of media products? How are style, content and layout adapted to meet each purpose? Interpreting client requirements to generate ideas and plan. What are the benefits of audience segmentation? What are the benefits for conducting research? How do content and codes work together to convey meaning, create impact and engagement 	<p>Key Vocabulary and meanings:</p> <p>Demographic – study of target audience characteristics</p> <p>Segmentation – splitting a target audience into different categories</p> <p>Interactive – something which allows the user to be involved in the process of watching or listening (clicking, typing or speaking)</p> <p>Stereotypes – an assumption made about people who are part of a particular demographic</p> <p>Qualitative – research data based on what people think or feel about something</p> <p>Quantitative – research data based on numbers and statistical analysis</p> <p>Symbolic Codes – what something represents</p> <p>Intellectual property – something created in a person’s mind (story, idea, art), protected through copyright</p>
<p>Key Skills:</p> <ul style="list-style-type: none"> Theoretical knowledge of the media industry Ability to analyse a range of media products Responding to examination questions in a formal, written manner 	

Links to prior knowledge /learning:

No prior knowledge required; this unit allows students to gain underpinning knowledge and understanding relevant to the qualification and sector.

Cross Curricular link/ World Issues

Damaging effect of stereotyping in the media industry

Rise of new media and collapse of some traditional media

Social sciences with research methods and mathematics – researching and interpreting given data (qualitative and quantitative)

HT2

Y10

I.T. Powerful Knowledge

R094 Visual Identity and Digital Graphics

Unit: R094 Visual Identity and Digital Graphics	
Purpose of Unit: <ul style="list-style-type: none"> To develop visual identity To plan digital graphics for products To create visual identity and digital graphics 	
Key Learning/Knowledge: <ul style="list-style-type: none"> What are the purposes, elements and design of a visual identity? Component features of visual identity (name, logo and slogan) Graphics, typography, colour palettes and layout options How does the business type, brand values and brand positioning effect the overall visual identity? What is alignment? What are the main colour systems used in graphic design? What are the layout conventions of different graphics? What is the difference between Bitmap/raster graphics and vector graphics? How do licences and permissions effect the sourcing of assets for visual identity? How to create mindmaps, moodboards, concept sketches and visualisation diagrams to plan visual identities How to use Adobe Photoshop – all the tools and techniques required Creating a visual identity based on a client brief How to save and export visual identity and digital graphics 	Key Vocabulary and meanings: <p>Visual identity - a collection of visual elements that serve to represent and differentiate a brand (eg: a logo)</p> <p>Typography – the style and arrangement of letters in a particular way to make sure that it can be read and fits the style of the document it is used in</p> <p>Pixel – the smallest part of a digital image, each with a unique colour</p> <p>Compression - reducing the size of a file by deleting unnecessary data.</p> <p>Bitmap/raster graphic – a digital image composed of pixels</p> <p>Vector graphic – a computer-made image made up of points, lines and curves</p> <p>Pre-production – everything that happens before the production of a media product</p> <p>Assets – the different images collected that will be used to make the final product</p> <p>Copyright – A form of protection for the originator of creative work (intellectual property)</p>

Links to prior knowledge/learning:

R093 unit – how style, content and layout are linked to the purpose; reading and interpreting a client brief; target audience demographics and segmentation; concepts of typography and colour symbolism; media codes used to convey meaning; documents used to support idea generation

Gross Curricular link/ World Issues

Computer science – file types, sizes and compression

Photography – taking photographs, collating assets and using image editing software

Reading a written brief (English) and making inferences and personal interpretations

Key Skills:

- Planning and preparing a media product
- Reading and interpreting a client brief
- Using specialist image editing software to create a digital graphic