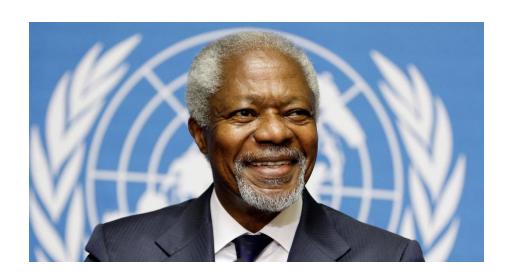
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Knowledge is power.
Information is
liberating.
Education is the
premise of progress, in
every society, in every
family.

Kofi Annan

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How do I use the Knowledge Organiser booklet for independent home learning?

Every day you should be studying from your Knowledge Organiser (KO) booklet for home learning, as a minimum expectation.

The timetable on page 4 in this KO booklet tells you which subjects you should be studying and on which days. It doesn't matter if you don't have that subject on that day, you just follow the timetable.

Key instructions:

- Produce your home learning in your knowledge organiser exercise book.
- Start a new page for each subject.
- Bring your knowledge organiser booklet and exercise book to school with you every day.
- Your parents/carers should sign completed home learning every evening at the top of each page in your knowledge organiser exercise book.
- Your knowledge organiser exercise book will be checked regularly in form time and in lessons.
- Failure to complete knowledge organiser home learning will result in an after-school detention, where the missed home learning will be caught up.
- You will be regularly quizzed in lessons on knowledge from your knowledge organisers, to support the retention of this key information.

How does Knowledge Organiser home learning work?

The knowledge organiser for each subject contains the foundation knowledge that is required for that topic for that specific part of the year. Your aim is to make sure that by the end of the topic you are able to retain all of the knowledge from each subject knowledge organiser.

For each subject you should follow one of the two methods, and you should do one page of knowledge organiser home learning per subject. You are self-quizzing and self-assessing your knowledge against that in the KO booklet for each subject. You are not just taking notes or copying out.

Method 1

- Read the knowledge organiser for about 5 minutes
- Cover the knowledge organiser up
- Write down as much as you can remember in black/blue pen
- Add all that you couldn't remember or any corrections in green pen.

Method 2

- Read the knowledge organiser for about 5 minutes
- Use/write exam style questions
- Answer the questions in black/blue pen
- Correct/improve your answers in green pen

Each day complete one page of your knowledge organiser exercise book to evidence your home learning

Week 1	Subject 1	Subject 2	Signature
Monday	Cultural Capital	English	
Tuesday	Maths	Science	
Wednesday	Art	LFL	
Thursday	Drama	MFL	
Friday	PE	Geography	

Week 5	Subject 1	Subject 2	Signature
Monday	History	Drama	
Tuesday	Music	ICT	
Wednesday	Spark	Cultural Capital	
Thursday	English	Maths	
Friday	Science	Art	

Week 2	Subject 1	Subject 2	Signature
Monday	History	Drama	
Tuesday	Music	ICT	
Wednesday	Spark	Cultural Capital	
Thursday	English	Maths	
Friday	Science	Art	

Week 6	Subject 1	Subject 2	Signature
Monday	LFL	Drama	
Tuesday	MFL	PE	
Wednesday	Geography	History	
Thursday	Drama	Music	
Friday	ICT	Spark	

Week 3	Subject 1	Subject 2	Signature
Monday	LFL	Drama	
Tuesday	MFL	PE	
Wednesday	Geography	History	
Thursday	Drama	Music	
Friday	ICT	Spark	

Week 7	Subject 1	Subject 2	Signature
Monday	Cultural Capital	English	
Tuesday	Maths	Science	
Wednesday	Art	LFL	
Thursday	Drama	MFL	
Friday	PE	Geography	

Week 4	Subject 1	Subject 2	Signature
Monday	Cultural Capital	English	
Tuesday	Maths	Science	
Wednesday	Art	LFL	
Thursday	Drama	MFL	
Friday	PE	Geography	

Week 8	Subject 1	Subject 2	Signature
Monday	History	Drama	
Tuesday	Music	ICT	
Wednesday	Spark	Cultural Capital	
Thursday	English	Maths	
Friday	Science	Art	

You are expected to study the subjects shown on your timetable each day.

Each day complete one page of your knowledge organiser exercise book to evidence your home learning

Week 9	Subject 1	Subject 2	Signature
Monday	LFL	Drama	
Tuesday	MFL	PE	
Wednesday	Geography	History	
Thursday	Drama	Music	
Friday	ICT	Spark	

Week 13	Subject 1	Subject 2	Signature
Monday	Cultural Capital	English	
Tuesday	Maths	Science	
Wednesday	Art	LFL	
Thursday	Drama	MFL	
Friday	PE	Geography	

Week 10	Subject 1	Subject 2	Signature
Monday	Cultural Capital	English	
Tuesday	Maths	Science	
Wednesday	Art	LFL	
Thursday	Drama	MFL	
Friday	PE	Geography	

Week 14	Subject 1	Subject 2	Signature
Monday	History	Drama	
Tuesday	Music	ICT	
Wednesday	Spark	Cultural Capital	
Thursday	English	Maths	
Friday	Science	Art	

Week 11	Subject 1	Subject 2	Signature
Monday	History	Drama	
Tuesday	Music	ICT	
Wednesday	Spark	Cultural Capital	
Thursday	English	Maths	
Friday	Science	Art	

Week 15	Subject 1	Subject 2	Signature
Monday	LFL	Drama	
Tuesday	MFL	PE	
Wednesday	Geography	History	
Thursday	Drama	Music	
Friday	ICT	Spark	

Week 12	Subject 1	Subject 2	Signature
Monday	LFL	Drama	
Tuesday	MFL	PE	
Wednesday	Geography	History	
Thursday	Drama	Music	
Friday	ICT	Spark	

Reading Log

Use this reading log to record the books that you read and how long you have spent reading them during this term

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Books read (title and author	Time spent reading	Signature
1										
2										
3										
4										
5										
6										
7										

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Books read (title and author	Time spent reading	Signature
8										
9										
10										
11										
12										
13										
14										
15										

Key	Words for Term 1	Ļ	
sector	established	pei	riod
available	authority	cor	ntext
financial	major	sig	nificant
process	issues	sim	nilar
individual	labour		
specific	occur		
principle	economic		
estimate	involved		
variables	percent		
method	interpretation		
data	consistent		
research	income		
contract	structure		
environment	legal		
export	concept		Date
source	formula		28 th Se
assessment	section		14 th Oc
policy	required		25 th De
identified	constitutional		1070
create	analysis		1077 1078
derived	distribution		1078
factors	function		Extend
procedure	area		
definition	approach		Who w
assume	role		Ca
theory	legislation		Compl
benefit	indicate		Compl
evidence	response		'

Key Words

Having a broad vocabulary is very important in helping you to make progress. Each term we will provide you with a bank of words so that you can learn the definition and practice spelling, your subjects teachers will be looking for opportunities for you to use these words within your work. Your form tutor will be working with you during registration time to check your understanding of the words. Over the course of the term it's important for you to;

Establish the definitions for all of the words

Learn how to spell each word

Develop example sentences that use the words and try and use these words in your work across the subjects you study

Key Dates Early Norman History of Britain				
Date	Event			
28 th September 1066	William of Normandy lands on the South Coast of England			
14 th October 1066	Battle of Hastings – The invading Normans defeat the Saxons completing the Norman conquest			
25 th December 1066	William of Normandy is crowned King William I of England			
1070	The Normans start to build Canterbury Castle			
1077	Bayeux Tapestry is completed, depicting the events at the battle of Hastings			
1078	The Normans start to build the Tower of London			
1085	The Domesday Book, an inventory of Britain is compiled			

Extended Understanding

Who were the Normans?

Complete some research into the Bayeux Tapestry, what was it and why was it important?

Complete some research into the Domesday book, what was it and why was it important?

British Values

Why do you need to know about British Values? Understanding British values is an important way to enable you to embrace the key values that you need to be equipped for life in modern British society. Through understanding the British values of Democracy, the Rule of Law, Individual Liberty, Mutual Respect, and Acceptance for those with different faiths and beliefs, you will develop self-knowledge, be better able to make the right choices and make contributions to the school and the wider community.

British Value	Definition
Democracy	A political system based upon the concept of people having the power to decide. The word comes from the Ancient Greek for people and power.
Individual Liberty	The Concept that in a modern democracy people have the freedom to make their own choices and decisions.
The Rule of Law	A basic principle of a democratic society that the law applies equally to all people.
Mutual respect for and tolerance of those with different faiths and beliefs, and for those without faith.	A concept based upon the idea that in a modern society people show understanding of others with differing views and opinions.

Facts about the UK

1.	The sports football, rugby, golf, and cricket were all invented in the United Kingdom.
2.	England is the largest country in the United Kingdom.
3.	Big Ben in London actually doesn't refer to the clock. Big Ben is the bell that is located in the clock tower.
4.	The United Kingdom includes the following countries: Scotland, Wales, Northern Ireland, and England.
5.	England is the most populous country in the United Kingdom.
6.	London, England was the first city in the world to have an undergound subway system.
7.	Queen Elizabeth became the longest-reigning monarch in the United Kingdom in 2015.
8.	165 million cups of tea per day are consumed in the United Kingdom.
9.	After hosting the 2012 Olympics, London became the first city to host the games three times.
10.	Windsor Palace is the oldest and largest occupied castle in the world.

Context:	Key Texts	
William Wordsworth: Major English Romantic poet. Born: April 1870 Died: April 1850. Heavily inspired by Nature and his sister Dorothy.	Daffodils	Symbolising rebirth and new beginnings, the daffodil is virtually synonymous with spring. Though their botanic name is narcissus, daffodils are sometimes called jonquils, and in England, because of their long association with Lent, they're known as the "Lent Lily."
Carol Ann Duffy: Poet Laureate of 2009-2019 Best known for writing love poems that often take the forms of monologues. Contrasting traditional poetry, Duffy likes to use a conversational style.	Valentine	Valentine is a poem that offers an unconventional approach to the traditional, romantic, commercially driven idea of a sugar coated Valentine's day.
John Cooper Clarke: First became famous during the Punk era of the late 1970's. Performance poet – his poetry is to be performed. The modern band, The Artic Monkeys lifted some of the lines of his poetry for their own track.	I Wanna be Yours	A humorous poem by John Cooper Clarke, which explores the infatuation of the narrator with their romantic interest.
W.H Auden: American-English poet Born: 1907, Died: 1973 Auden's poetry was noted for its stylistic and technical achievement, its engagement with politics, morals, love, and religion, and its variety in tone, form and content.	Funeral Blues	The poem is of the narrative type, as it tells the story of the death of somebody and how that has affected the speaker. The narrator talks about how he feels after somebody important has passed.
Derek Walcott: Saint Lucian poet and playwright. He received the 1992 Nobel Prize in Literature. He was the University of Alberta's first distinguished scholar in residence, where he taught undergraduate and graduate writing courses.	Love after Love	Love After Love is an unusual love poem which concentrates on loving the self, the inner self, following the breakdown of a relationship. It's main theme is that of becoming whole again through self-recognition.
British writer, dub poet and Rastafarian. He was included in The Times list of Britain's top 50 post-war writers in 2008.	No Problem	No Problem is an ideal example of a poem that utilises a voice that comes straight from the poet: Benjamin Zephaniah. The main focus of the poem is stereotypes.
Robert Browning: One of the most famous Victorian poets for his mastery of the dramatic monologue. Much of his education was conducted at home by his father.	My Last Duchess	The true significance of the title is only discovered at the end of the poem, when the dramatic monologue is placed into context and the reader realises who the duke is speaking to about his former wife.
Willy Russell: Working class Liverpudlian, he began his working life as a hairdresser in Liverpool.	Blood Brothers	Blood Brothers is a musical with book, lyrics, and music by Willy Russell. The story is a contemporary nature versus nurture plot, revolving around fraternal twins Mickey and Eddie, who were separated at birth, one subsequently being raised in a wealthy family, the other in a poor family.
John Steinbeck: Won the Noble Prize in Literature for his keen social perception and sympathetic humour. Born in California, which is the setting of the text. His novels deal with the problems of rural labour.	Of Mice and Men	Of Mice and Men tells the story of George Milton and Lennie Small, two displaced migrant ranch workers, who move from place to place in California in search of new job opportunities during the Great Depression in the United States.

Semantic Field	A set of words grouped by meaning, referring to a specific subject.	Imagery	Visually descriptive or figurative language, especially in a literary work.
Figurative Language	Using words or expressions to convey a meaning that is different from the literal interpretation.	Structure	The way the poet has organised the poem on the page e.g. number of stanzas, lines per stanza, breaks in between lines and stanzas.
Alliteration	The occurrence of the same consonant letter or sound at the beginning of adjacent or closely connected words.	Intertextuality	The relationship between texts, especially literary ones.
Sibilance	A more specific type of alliteration that relies on the repetition of soft consonant sounds in words to create a whooshing or hissing sound in the writing.	Emotive Language	Language that creates emotions in the reader.
Pathetic Fallacy	Pathetic fallacy is a kind of personification that gives human emotions to inanimate objects of nature; for example, referring to weather features reflecting a mood.	Verse	A single line of a poem, arranged rhythmically in metrical feet
Stanza	A stanza is a group of lines that act like sentences. The sentences combine to make stanzas, or paragraphs of poetry.	Rhyme Scheme	The pattern of rhyme in a poem.
Phonetic Spelling	Phonetic Spelling is the representation of vocal sounds which express pronunciations of words. It is a system of spelling in which each letter represents invariably the same spoken sound.	Simile	Comparison using 'like' or 'as'
Allegory	A story, poem, or picture that can be interpreted to reveal a hidden meaning, typically a moral or political one.	Couplet	A two line stanza.
Repetition	When something is said more than once for effect.	Caesura	A break between words within a metrical foot.
Metaphor	A figure of speech that describes an object or action in a way that isn't literally true but helps explain an idea or make a comparison	Hyperbole	Exaggerated statements or claims not meant to be taken literally
Personification	Giving human characteristics to something non-human, or the representation of an abstract quality in human form.		

Number

Topic/Skill	Definition/Tips	Example
Integer	A whole number that can be positive, negative or zero.	-3,0,92
Sum	To find the total, or sum, of two or more numbers means add the numbers together	3+2+7=12
	'add', 'plus', 'sum'	
Difference	To find the difference between two numbers means you subtract one number from the other	10 - 3 = 7
Product	To find the product of two numbers means you multiply them.	$3 \times 6 = 6 + 6 + 6 = 18$
BIDMAS	An acronym for the order you should do calculations in.	$6 + 3 \times 5 = 21, not 45$
	BIDMAS stands for 'Brackets, Indices, Division, Multiplication, Addition and Subtraction'.	$5^2 = 25$, where the 2 is the index/power.
	Indices are also known as 'powers' or 'orders'.	
	With strings of division and multiplication, or strings of addition and subtraction, and no brackets, work from left	40 . 4 . 0 . 4 5 . 4 6
	to right.	$12 \div 4 \div 2 = 1.5, not 6$
Terminating	A decimal number that has that has an end.	0.78, 12.056
decimal		
Recurring Decimal	A decimal number that has digits that repeat forever.	$\frac{1}{3} = 0.333 \dots = 0.\dot{3}$
	The part that repeats is usually shown by placing a dot above the digit that repeats, or dots over the first and last	
	digit of the repeating pattern.	$\frac{1}{7} = 0.142857142857 \dots = 0.142857$
		$\frac{77}{600} = 0.128333 \dots = 0.1283$
Multiple	The result of multiplying a number by an integer.	The first five multiples of 7 are:
	The times tables of a number.	7, 14, 21, 28, 35
Factor	A number that divides exactly into another number without a remainder.	The factors of 18 are:
		1,2,3,6,9,18
	It is useful to write factors in pairs	The factor pairs of 18 are: 1,18
		2,9
		3,6
Lowest Common	The smallest number that is in the times tables of each of the numbers given.	The LCM of 3, 4 and 5 is 60 because it is the smallest number in
Multiple (LCM)		the 3, 4 and 5 times tables.

Topic/Skill	Definition/Tips	Example
Highest Common	The biggest number that divides exactly into two or more numbers.	The HCF of 6 and 9 is 3 because it is the biggest number that
Factor (HCF)		divides into 6 and 9 exactly.
Prime Number	A number with exactly two factors .	The first ten prime numbers are:
	A number that can only be divided by itself and one.	2, 3, 5, 7, 11, 13, 17, 19, 23, 29
	The number 1 is not prime , as it only has one factor, not two.	
Product of Prime	Finding out which prime numbers multiply together to make the original number.	36
Factors		36 = 2×2×3×3
	Use a prime factor tree.	2)18 or $2^2 \times 3^2$
	Also known as 'prime factorisation'.	2 ,
		3 3
Significant Figure	The significant figures of a number are the digits which carry meaning (ie. are significant) to the size of the	In the number 0.00821, the first significant figure is the 8.
	number.	
	The Control Court Court of a supplier of the court of the	In the number 2.740, the 0 is not a significant figure.
	The first significant figure of a number cannot be zero.	0.00034
	In a number with a decimal, trailing zeros are not significant.	0.00821 rounded to 2 significant figures is 0.0082.
	In a number with a decimal, training zeros are not significant.	19357 rounded to 3 significant figures is 19400. We need to
		include the two zeros at the end to keep the digits in the same
		place value columns.
Truncation	A method of approximating a decimal number by dropping all decimal places past a certain point without	3.14159265 can be truncated to 3.1415 (note that if it had been
Transación	rounding.	rounded, it would become 3.1416)
Error Interval	A range of values that a number could have taken before being rounded or truncated.	0.6 has been rounded to 1 decimal place.
Litor interval	An error interval is written using inequalities, with a lower bound and an upper bound.	The error interval is:
	Arrentor interval is written using inequalities, with a lower bound and an upper bound.	$0.55 \le x < 0.65$
	Note that the lower bound inequality can be 'equal to', but the upper bound cannot be 'equal to'.	The lower bound is 0.55
	The that the letter bearing mequantly can be equal to , but the appear bearing cannot be equal to .	The upper bound is 0.65
Estimate	To find something close to the correct answer.	An estimate for the height of a man is 1.8 metres.
Approximation	When using approximations to estimate the solution to a calculation, round each number in the calculation to 1	348 + 692 300 + 700
	significant figure.	$\frac{348 + 692}{0.526} \approx \frac{300 + 700}{0.5} = 2000$
	pprox means 'approximately equal to'	'Note that dividing by 0.5 is the same as multiplying by 2'

Topic/Skill	Definition/Tips	Example
Square Number	The number you get when you multiply a number by itself.	1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225 $9^2 = 9 \times 9 = 81$
Square Root	The number you multiply by itself to get another number.	$\sqrt{36} = 6$
	The reverse process of squaring a number.	because $6 \times 6 = 36$
Cube Number	The number you get when you multiply a number by itself and itself again.	1, 8, 27, 64, 125
		$2^3 = 2 \times 2 \times 2 = 8$
Cube Root	The number you multiply by itself and itself again to get another number.	$\sqrt[3]{125} = 5$
	The reverse process of cubing a number.	
		because $5 \times 5 \times 5 = 125$

Shape

Topic/Skill	Definition/Tips	Example
Net	A pattern that you can cut and fold to make a model of a 3D shape .	1 2 3 4 5 6
Properties of Solids	Faces = flat surfaces Edges = sides/lengths Vertices = corners	A cube has 6 faces, 12 edges and 8 vertices.
Plans and Elevations	This takes 3D drawings and produces 2D drawings. Plan View: from above Side Elevation: from the side Front Elevation: from the front	Original 3D Drawings 2D Drawings Plan Front Elevation Side Elevation
Types of Angles	Acute angles are less than 90°. Right angles are exactly 90°. Obtuse angles are greater than 90° but less than 180°. Reflex angles are greater than 180° but less than 360°.	Acute Right Obtuse Reflex
Angle Notation	Can use one lower-case letters, eg. θ or x Can use three upper-case letters, eg. BAC	$A \xrightarrow{\theta} C$
Angles at a Point	Angles around a point add up to 360°.	$\begin{vmatrix} d \\ c \\ b \end{vmatrix}$ $a+b+c+d=360^{\circ}$

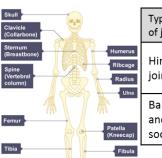
Topic/Skill	Definition/Tips	Example
Angles on a Straight Line	Angles around a point on a straight line add up to 180°.	$x = y$ $x + y = 180^{\circ}$
Opposite Angles	Vertically opposite angles are equal.	$\frac{x/y}{y/x}$
Alternate Angles	Alternate angles are equal. They look like Z angles, but never say this in the exam.	<i>y</i> / <i>x x</i> / <i>y</i>
Corresponding Angles	Corresponding angles are equal. They look like F angles, but never say this in the exam.	-y/x
Co-Interior Angles	Co-Interior angles add up to 180°. They look like C angles, but never say this in the exam.	y x x y
Angles in a Triangle	Angles in a triangle add up to 180°.	
Types of Triangles	Right Angle Triangles have a 90° angle in. Isosceles Triangles have 2 equal sides and 2 equal base angles. Equilateral Triangles have 3 equal sides and 3 equal angles (60°). Scalene Triangles have different sides and different angles. Base angles in an isosceles triangle are equal.	Right Angled Isosceles Equilateral Scalene
Angles in a Quadrilateral	Angles in a quadrilateral add up to 360°.	
Polygon	A 2D shape with only straight edges.	

Topic/Skill	Definition/Tips	Example
Regular	A shape is regular if all the sides and all the angles are equal.	
Names of Polygons	3-sided = Triangle	
	4-sided = Quadrilateral	
	5-sided = Pentagon	
	6-sided = Hexagon	
	7-sided = Heptagon/Septagon	
	8-sided = Octagon	
	9-sided = Nonagon	
	10-sided = Decagon	
Sum of Interior	$(n-2) \times 180$	Sum of Interior Angles in a Decagon = $(10-2) \times 180 = 1440^{\circ}$
Angles	where n is the number of sides.	
Size of Interior Angle	$(n-2) \times 180$	Size of Interior Angle in a Regular Pentagon =
in a Regular Polygon	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\frac{(5-2)\times 180}{5} = 108^{\circ}$
		5 - 108
	You can also use the formula:	
	180 – Size of Exterior Angle	
Size of Exterior	360	Size of Exterior Angle in a Regular Octagon =
Angle in a Regular	n	$\frac{360}{8} = 45^{\circ}$
Polygon		8 - 43
	You can also use the formula:	
	180 – Size of Interior Angle	

Algebra

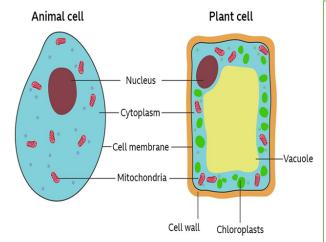
Topic/Skill	Definition/Tips	Example
Expression	A mathematical statement written using symbols, numbers or letters,	3x + 2 or 5y ²
Equation	A statement showing that two expressions are equal	2y - 17 = 15
Identity	An equation that is true for all values of the variables An identity uses the symbol: ≡	2x ≡ x+x
Formula	Shows the relationship between two or more variables	Area of a rectangle = length x width or A= LxW
Simplifying Expressions	Collect 'like terms'. $2x + 3y + 4x - 5y + 3 = 6x - 2y + 3$ $3x + 4 - x^2 + 2x - 1 = 5x - x^2 + 3$ Be careful with negatives. $x^2 \text{ and } x \text{ are not like terms.}$	
Expand	To expand a bracket, multiply each term in the bracket by the expression outside the bracket.	3(m+7) = 3x + 21
Factorise	The reverse of expanding. Factorising is writing an expression as a product of terms by 'taking out' a common factor.	6x - 15 = 3(2x - 5), where 3 is the common factor.
Solve	To find the answer/value of something Use inverse operations on both sides of the equation (balancing method) until you find the value for the letter.	Solve $2x - 3 = 7$ Add 3 on both sides $2x = 10$ Divide by 2 on both sides $x = 5$
Inverse	Opposite	The inverse of addition is subtraction. The inverse of multiplication is division.
Rearranging Formulae	Use inverse operations on both sides of the formula (balancing method) until you find the expression for the letter.	Make x the subject of $y=\frac{2x-1}{z}$ Multiply both sides by z $yz=2x-1$ Add 1 to both sides $yz+1=2x$ Divide by 2 on both sides $\frac{yz+1}{2}=x$ We now have x as the subject.

Topic/Skill	Definition/Tips	Example
Writing Formulae	Substitute letters for words in the question.	Bob charges £3 per window and a £5 call out charge.
		C = 3N + 5
		Where N=number of windows and C=cost
Substitution	Replace letters with numbers.	a = 3, b = 2 and $c = 5$. Find:
		1. $2a = 2 \times 3 = 6$
	Be careful of $5x^2$. You need to square first, then multiply by 5.	$2.3a - 2b = 3 \times 3 - 2 \times 2 = 5$
		$3.7b^2 - 5 = 7 \times 2^2 - 5 = 23$
Inequality	An inequality says that two values are not equal .	7 ≠ 3
	$a \neq b$ means that a is not equal to b.	<i>x</i> ≠ 0
Inequality symbols	x>2 means x is greater than 2	State the integers that satisfy
	x < 3 means x is less than 3	$-2 < x \le 4.$
	$x \ge 1$ means x is greater than or equal to 1	
	$x \le 6$ means x is less than or equal to 6	-1, 0, 1, 2, 3, 4
Inequalities on a	Inequalities can be shown on a number line.	$x \ge 0$
Number Line		
	Open circles are used for numbers that are less than or greater than $(< or >)$	-2 -1 0 1 2 3
		↓
	Closed circles are used for numbers that are less than or equal or greater than or equal $(\le or \ge)$	-5 -4 -3 -2 -1 0 1 2 3 4 5 x < 2
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$



s 3	Type of joint	Examples	Movement allowed
	Hinge joint	Knee, elbow	The same as opening and closing a door, with no rotation (turning)
	Ball and socket	Hip, shoulder	Back and forth in all directions, and rotation

Year 7 Science
Term One
Cells and
Movement



•Cell membrane – this surrounds the cell and allows nutrients to enter and waste to leave it.

 Nucleus – this controls what happens in the cell. It contains DNA, the genetic information that cells need to grow and reproduce.

•Cytoplasm – this is a jelly-like substance in which chemical reactions happen.

- •Mitochondria –They are structures where respiration takes place.
- •Cell wall this is an outer structure that surrounds the cell and gives it support.
- •Vacuole this is a space within the cytoplasm of plant cells that contains sap.
- •Chloroplasts these contain chlorophyll and are the site of photosynthesis.

The Skeleton has 4 main functions:

- 1. Supports the body
- 2. Allows movement
- 3. Protects parts of the body
- 4. Makes red blood cells
- · Joints hold bones together
- Joints are held together by ligaments
- Muscles move joints

Joint

Ligament

Cartilage

Tendon

Muscle

Fracture

Antagonistic pair

- Muscles are attached to bones by tendons
- · Muscles work in antagonistic pairs

have a nucleus) and eukaryotes such as yeast do have a nucleus.

Specialised cells have a specific role to perform.

Each specialised cell has a different job to do. They have **special features** that allow them to do these jobs.

Muscle cells, for example, are held together in bundles, which pull together to make muscles contract.

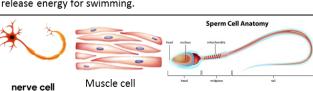
Nerve Cells have long extensions to carry nerve impulses from different

parts of the body.

Unicellular organisms are made up of one cell. They can either be

prokaryotes or eukaryotes. Bacteria are prokaryotes (they don't

Sperm cells have tails to swim to the egg, lots of mitochondria to release energy for swimming.



•All living things are made up of cells.

•Most cells are so small that you can only see them with a microscope.

•Cells have different components and each performs its own function within the cell.

How to use a microscope

1. Move the stage (the flat ledge the slide sits on) down to its lowest position.

2.Place the glass slide onto the stage. Be careful pushing it under the clips that the cover slide doesn't move or crack.

3.Select the lowest power objective lens.

4.Turn the coarse focus knob slowly until you are able to see the cells.

5.Turn the fine focus knob slowly until the cells are in focus and you can see them clearly.

6.Repeat steps 1-5 using the higher power magnification to see the cells in more detail.

Arthritis	Painful disease of the joints
Osteoporosis	Disease where bones become fragile, making them prone to fractures

Connects bone to bone

Connects muscle to bone

movement

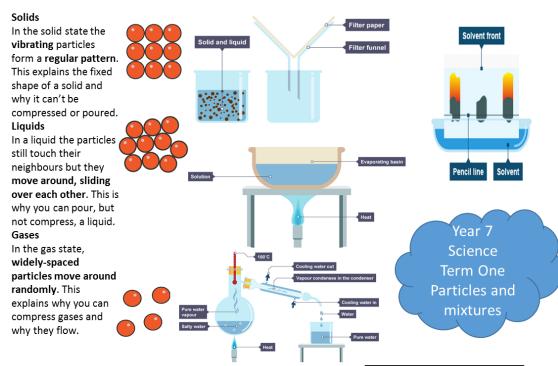
Broken bone

Where two bones meet; allows movement

Smooth tissue at the ends of bones, reduces

Two muscles that act together to create

Soft tissue which contract to produce a force



SOLIDS		<u>LIQUIDS</u>	
Property	Reason	<u>Property</u>	Reason
They have a fixed shape and cannot flow	The particles cannot move from place to	They flow and take the shape of the bottom of their container	The particles can move around each other
They cannot be compressed (squashed)	The particles are close together and have no space to move into	They cannot be compressed (squashed)	The particles are close together and have no space to move into

GASES	
<u>Property</u>	Reason
They flow and completely fill their container	The particles can move quickly in all directions
They can be compressed (squashed)	The particles are far apart and have space to move into

Particle	Very small part of a material, such as an atom or molecule
Particle model	A way of explaining the behaviour of solids, liquids and gases
Density	Mass of material per unit of volume
Malleable	Able to be bent without breaking
Brittle	Easily broken
Ductile	Can be stretched into a wire
Dissolve	When a solid mixes with a liquid and it cannot be seen
Insoluble	Will not dissolve in water
Soluble	Can dissolve in water
Solute	Solid that has been dissolved
Solvent	Liquid in which something dissolves
Solution	Mixture formed when a solid dissolves into a liquid
Compression	Force squashing or pushing together
Diffusion	Particles in a liquid or gas move from a high concentration to a low concentration
Pure substance	Contains only one type of particle
Mixture	Two or more elements mixed together but not joined
Vapour	Liquid that has evaporated
Distillation	Separating liquids by evaporating and condensing

Year 7
Science
Term One
Elements
and
compounds

Atoms

Everything is made from atoms, including you. Atoms are tiny particles that are far too small to see, even with a microscope. If people were the same size as atoms, the entire population of the world would fit into a box about a thousandth of a millimetre across.

We usually imagine atoms as being like tiny balls:



Atom: The smallest part of an element that can exist.

Compound: A substance formed by the chemical union of two or more elements.

Element: A substance made of one type of atom only.

Molecule: A collection of two or more atoms held together by

chemical bonds.

Elements

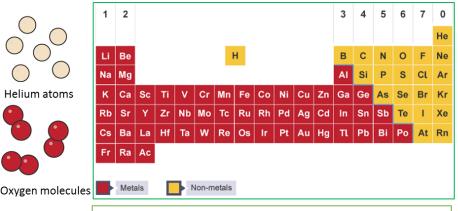
There are over a hundred different elements. The atoms in a particular element are the same as each other, and they are different from the atoms of all other elements. For example, lead and gold are elements. A piece of pure gold contains only gold atoms. A piece of pure lead contains only lead atoms.

The atoms of some elements do not join together, but instead they stay as separate atoms. Helium is like this. The atoms of other elements, such as hydrogen and oxygen, join together to make molecules



Compounds

A compound is a substance that contains atoms of two or more different elements, and these atoms are chemically joined together. For example, water is a compound of hydrogen and oxygen. Each of its molecules contains two hydrogen atoms and one oxygen atom. There are very many different compounds.



Compounds have a combination of symbols Each capital letter represents a different element

The numbers show how many of each atom you have

CO₂ = Carbon Dioxide → 1 carbon and 2 Oxygen

H₂O = Water → 2 Hydrogen and 1 oxygen

Elements are all found on the periodic table.

Each element has a symbol, either a single capital letter or a capital letter followed by a lower case letter.

Some element symbols:

H= Hydrogen

C= Carbon

O= Oxygen

N= Nitrogen

He = Helium

Cl = Chlorine

Ca = Calcium

Al = Aluminium



Carbon Dioxide

The Earth is the source of all the resources we need, such as metals, plastics and fuels. Humans are very successful living things. We compete with other organisms for many natural resources. These include:

land (for farms, buildings and roads)

water (for drinking, watering fields, and industry)

The world's human population is increasing, and this means that we are using more resources all the time.

-Year 7 Science Term One Longer wavelength Magnetism & Global warming Extra carbon dioxide in the atmosphere increases the greenhouse effect. More thermal energy is trapped by the atmosphere, causing Carbon Dioxide in the Plants take carbon out of the the planet to become atmosphere by atmosphere warmer than it would Carbonis be naturally. This increase in the Earth's temperature is called global warming. Carbon in dead and

78% Nitrogen

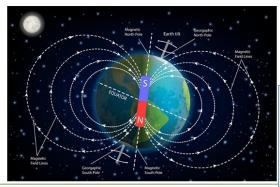
21% Oxygen

Other including:
1% Argon

The Earth's atmosphere is the relatively thin layer of gases that surround the planet. It provides us with the oxygen we need to stay alive.

The three most abundant gases (the ones with the highest percentages) are all elements:

- 78% nitrogen, N2
- 21% oxygen, O2
- 0.9% argon, Ar



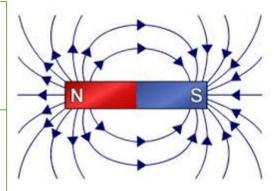
Carbon is being continually recycled on Earth. The processes that release carbon dioxide to the atmosphere include:

- · combustion of fossil fuels
- · respiration by plants and animals

Carbon dioxide is taken in from the atmosphere by plants so that they can carry out photosynthesis.

Some processes move carbon compounds from place to place, including:

- · feeding by animals
- formation of fossil fuels

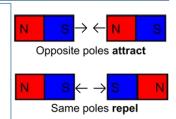


Magnets have a North pole and a South pole.

The magnetic field is the area in which you can feel the magnetic force.

The field lines move from North to South.

The Earth has a magnetic field which is why compasses always point to magnetic north. This is slightly different to the north pole



Attract = Pull towards; a magnet will attract any magnetic material that is close enough Repel = Push away; eg north pole of a magnet will repel the north pole of another magnet

	Key terms and definitions		Key terms and definitions			
Contrast Asymmetrical	Difference/ Variety i.e. Dark and Light Means each side is not the same, so one eye may appear bigger than the	Depth	Creating 3 dimensions by using graduated shading			
	other and lower down the face than the other.	Form	Creating a drawing of object which has the appearance of length, width & depth i.e. Creating a 3 dimensional effect			
Composition	A formal element in art. The placement and arrangement of your artwork and how shapes relate within it. i.e. The layout and positioning of your work	Tone	Is an formal element in art and literally means light and dark			
Collage	Derived from the French word " Coller" meaning to glue; Where a piece of artwork is made from the assemblage of paper(s)	Shape	Is a formal element in art; it is an enclosed space. Shapes are limited to 2 dimensions which are length and width			
Mark- Making	Different patterns, lines, textures and shapes made with a pencil i.e. scribble, cross-hatching	Kimmy Cantrell – Key facts about the artist				
Dry-brushing	Loading your brush with paint, then taking the excess off so it only partially	He was born 22 Oct 19	957 in Georgia USA			
	layers over an already prepared surface i.e. A black painted surface peeps through a thin layer or white paint	He is an African American Artist who is still practising today and makes a living out of selling he vivid abstract artwork via commissions to art lovers and international companies.				
Cross-	A series of lines which cross over each other from left to right and right to	He discovered his love	of art in high school where he loved working with the expressive media			
hatching	left creating a shading mark- making technique	He discovered his love of art in high school where he loved working with the expressive media of clay. He continues to work in this media today and is classed as a ceramicist. He sometimes				
Proportion	Comparison of size. The relative size of parts of a whole i.e. Are the eyes the right size for the face?	uses mixed media introducing other materials such as copper and stainless steel into his work He is a self- taught artist and after quitting his job in 1999 and initially started making vases which progressed to bowls with faces				
Formal	Formal Elements are parts used to make a piece of art work. The 8 elements					
Elements	are Line, Form, ,Shape, Tone, Pattern, Texture, Colour and Composition					
Block colour	Apply one even coat of colour to a surface without any imperfections	Kimmy Cantrell loves masks, he has always loved tribal and primitive art and tries to reflect this in his own artwork. He is also inspired by the art movement, Cubism.				
Texture	Is a formal element which has an actual surface quality i.e. adding sawdust to paint or creating an illusion of a surface i.e. furry, scratchy etcetera	He has a real passion for art and says that "Creating something from nothing is a magical process"				
Block Colour		1	g themes, faces, nudes, still lives and his other passion fish, he famously he answer don't give up, keep on fishing for it!"			
Graduated	Shading with a pencil/ pencil to create depth. Where dark gradually turns	Salu II you can t iiilu ti	ne answer don tigive up, keep on listling for it:			
Shading	into light without any imperfections	He uses asymmetry in his work to challenge the misconception that society has with perfect equalling beauty. He champions imperfections in faces.				
Guidelines	Creating a series of lines to draw within so everything is the same size i.e. A title in your sketchbook so you can get all your letters the same size	He loves the colour red and uses it in all of his work, he finds the colour luscious as it simulate				
Primary	A group of colours which all other colours are made from: Red , Yellow and	passion				
Colour	Blue	He takes 10 days to create a piece of artwork				
Secondary	A colour resulting from mixing two primary colours together i.e. Red and					
Colour	Yellow = Orange	He sees his work as "Bı	reaking the code" a key phrase used by the Abstract Expressionist			
Blending	Gently bringing together two or more colours to create the softening of lings	painter Jackson Pollock	c. What he is trying to say here is that he is trying to educate people who			
	i.e. shading blue and yellow together to create blue graduating to green		engage with and accept imperfection.			
	graduating to yellow.		ses his work as having Roots. "We all have roots and my roots come out			
Definition	To make something "Stand out" and become obvious	in the Art I create.				

Welcome to LfL

	Key terms and definitions		Key terms and definitions
Evidence	The available facts or information indicating whether a belief or proposition is true or valid.	Belief	An opinion that something is true often without any real evidence.' (Ideas that you accept without question e.g.
Enquiry	Asking questions to gain information.		Jesus is the Son of God).
Respect	A feeling of deep admiration for someone or something because of their abilities, qualities, or achievements.	Faith	Faith is when a person believes something to be true and puts their 'trust' in what they believe to be true.
Express	To put a thought, feeling, fact or information into own words.	Fact	Something you can prove to be true.
		Identity	Who you are, the qualities you have.
Artefacts	An object made by a human being, typically one of	Unique	One of a kind, unlike others.
	cultural, religious or historical interest	Diversity	Many or different.
Rituals	Actions that you perform e.g. Kneeling to pray	Community	A group of people that are connected or have shared
Symbol	Special Sacred image that mean something e.g. The cross		characteristic in common such as :Meeting to worship
Experience	Something that you feel e.g. joy or do.		e.g. The Congregation of a Church
Atheist	Someone who is certain that God does not exist.	Rules	Laws which say how you should behave or the way in which you should behave.
Theist	Someone who is certain that God does exist.	Agnostic	Someone who is uncertain of God's existence.

Faith and You

	Key terms and definitions		Key terms and definitions							
Multi Faith	Lots of religions OR different religions, are allowed to co- exist and be followed or practiced.	Belief	An opinion that something is true often without any real evidence.' (Ideas that you accept without question e.g. Jesus							
Cohesion	The act of working together for a course.	Faith	is the Son of God). Faith is when a person believes something to be true and puts							
Religious Freedom	The right to practise your religion or change religions	Faitii	their 'trust' in what they believe to be true.							
Respect	A feeling of deep admiration for someone or something because of their abilities, qualities, or achievements.	Fact 10 Commandments	Something you can prove to be true. 10 rules for Christians to follow, written in the Old Testament							
Benevolent	All Loving		of the bible.							
Omnipotent	All powerful	Omniscient	All knowing							
Rituals	Actions that you perform e.g. Kneeling to pray	Prayer	An act of communication with God in religion.							
Communication	Exchanging of information in written or verbal form.	Diversity	Many or different.							
Trinity	A Christian belief, that there is one God with three elements e.g. The Father, The Son and the Holy Spirit.	Community	A group of people that are connected or have shared characteristic in common such as: Meeting to worship e.							
Atheist	Someone who is certain that God does not exist.]	The Congregation of a Church							
Theist	Someone who is certain that God does exist.	Rules	Laws which say how you should behave or the way in which							
Creator	A person or thing that brings something into existence		you should behave.							
Peace	A state or period of time, where there is freedom from	Agnostic	Someone who is uncertain of God's existence.							
	disturbance and everyone can co-exist together without	Omnipresent	Always present							
	conflict or tension.	Eternal	Everlasting, will last forever.							
Five Pillars of Islam	Fundamental set of beliefs in Islam.	Pilgrimage	Religious Journey							
		Shahadah	A declaration of faith in Islam							
Tawhid	Oneness of Allah (one God).	Hajj	A pilgrimage to Mecca in Islam, it is one of the five pillars.							
Mecca/Mekkah	Holy City in Saudi Arabia, where Muslims go on pilgrimage to at least once in their lifetime.	Ramadan	A holy month in Islam, where Muslims fast (go without food or drink), during daylight hours.							
Eid	The celebration to mark the end of the month of Ramadan in	Salah	Prayer in Islam							
	Islam.	Wudu/Wuduh	The washing ceremony which a Muslims must perform before							
Zakat	The act of giving to charity for Muslims, (one of the Five Pillars).	Spirituality	praying. The feeling of being concerned with or connected to							
Charity	The voluntary giving of help or aid to those in need.	John Luanty	something greater.							
Meditation	The act of giving your attention to one thing, being at peace within yourself.	Festival	A day or period of celebration, which can be religious or non- religious in nature							
Celebration	A social gathering or activity, held in recognition of something significant.	Monotheists	Believe in one God.							

Respect

	Key terms and definitions		Key terms and definitions				
Multi Faith	Lots of religions OR different religions, are allowed to co- exist and be followed or practiced.	Belief	An opinion that something is true often without any real evidence.'				
Cohesion	The act of working together for a course.]	(Ideas that you accept without question e.g. Jesus is the				
Religious	The right to practise your religion or change religions		Son of God).				
Freedom		Faith	Faith is when a person believes something to be true				
Respect	A feeling of deep admiration for someone or something		and puts their 'trust' in what they believe to be true.				
	because of their abilities, qualities, or achievements.	Fact	Something you can prove to be true.				
Communication	Exchanging of information in written or verbal form.	Diversity	Many or different.				
Peace	A state or period of time, where there is freedom from	Community	A group of people that are connected or have shared				
	disturbance and everyone can co-exist together		characteristic in common such as: Meeting to worship				
	withi=out conflict or tension.		e.g. The Congregation of a Church				
Freedom	The power or right to speak or act or believe as you	Rules	Laws which say how you should behave or the way in				
	want.		which you should behave.				
Protesting	Expressing or showing disapproval or objection to	Freedom Fighter	A person or groups who decides to stand up for				
	something.		something they believe in, against authority figures -				
Authority	The power or right to give orders, make rules, make		Freedom fighter is a positive term.				
	decisions, require or enforce obedience.	Racism	The belief that some ethnic groups are superior to				
Responsibility	A duty to do something. Something you should do.		others (criminal offence to be racist).				
Prejudice	Belief that some people are superior or inferior without	Rights	Something you are allowed to do by law.				
	evidence or knowledge of them.	Harmony	Agreement, living without conflict.				
Racial Harmony	Different ethnic groups living together peacefully.	Discrimination	Treating people differently because of their				
Human Rights	The rights that all humans have regardless of race,	1	race/ethnicity/gender/ sexual orientation/social class.				
	gender, ethnicity, sexual orientation, age	Hate Crime	A crime (usually involving violence), motivated by				
Morality	Principles concerning what is right and wrong, good or	1	prejudice usually due to race or religion or sexual				
-	bad.		orientation or other grounds.				
	1	Monotheistic	Beliefs in one God.				

Key term	Definition	Key term	Definition
Communication	The ability to share ideas and feelings effectively	Vocal Skills	Are the use of voice used to communicate meaning, such as pitch, pace and pause
Confidence	The ability to share ideas and perform ideas effectively and with ease	Pitch	Can be the high or low pitch of your voice, high pitch maybe female, scared or excited.
Co-operation	The willingness to be helpful in developing ideas in your group	Pace	The speed in which words are delivered to communicate a given/ intended meaning to the audience
Still Image	A frozen moment that communicates meaning to the audience	Pause	Can be used to create dramatic tension
Facial Expressions	Where emotions are conveyed to the audience through the use of movement in the face	Choral Speaking	Can be used to create atmosphere or communicate an intended meaning to an audience. It uses layered language of key words and phrases.
Body language	Is a movement position with the body that communicates meaning for the audience	Slow motion	Can be used to highlight a key moment or scene in the drama, it is drama action that takes place in a 'slow' pace.
Gestures	A hand movement that communicates meaning and emotions to the audience	Flashforward	Can be used to take the drama forward in time, giving the audience additional information.
Movement Skills	Can be used by the actor to communicate meaning and emotion, these can be facial expressions, gestures, body language	Flashback	Can be used to take the drama back in time, giving the audience information about what has happened previously.
Forum Theatre	A rehearsal technique where the audience take on the role of the spec-actors to give immediate feedback to the actors. The spec – actor may give verbal feedback or swap places with the actor to model improvement.	Welfare	A service provided in Penketh High School should students feel overwhelmed or presented with issues that are out of their control. Students can seek support from highly qualified and dedicated staff.

Introducii	ng yourself	Essential words					
Bonjour / Bonsoir	Good morning / good evening	un, deux, trois, quatre, cinq, six, sept, huit, neuf, dix		1-10			
Salut / coucou	Hi						
(comment) ça va?	How are you?	onze, douze, treize, quatorze, quinze, s	11-20				
Ça va (très) bien / mal	I'm (very) good / not good	dix-huit, dix-neuf, vingt					
Comment t'appelles-tu?	What's your name?	vingt-et-un, vingt-deux, vingt-trois, vin		21-30			
Comment ça s'écrit?	How do you spell it?	vingt-cinq, vingt-six, vingt-sept, vingt-h					
Ça s'écrit	It's spelt	trente					
Quel âge as-tu ?	How old are you ?	janvier, février, mars, avril, mai, juin, ju septembre, octobre, novembre, décem	Months of the year				
J'ai douze ans	I'm twelve years old	lundi, mardi, mercredi, jeudi, vendredi,	Days of the week				
Quelle est la date de ton anniversaire?	When is your birthday ?	dimanche					
Mon anniversaire c'est le My birthday is		Essential verbs					
Quelle est la date aujourd'hui ?	What's the date today ?	J'ai	I have				
Où habites-tu ?	Where do you live ?	tu as you have					
J'habite en Angleterre / au Royaume-	I live in England / in the UK / in France	ila	he has				
Uni / en France	_	elle a sne nas					
		Je suis tu es					
• •	Permission	il est					
Je peux avoir un stylo / un crayon?	Can I have a pen / a pencil ?	elle est					
iJe peux enlever ma veste ?	Can I take off my blazer ?		she is				

Top tips for pronunciation in French					
Generally, the last consonant isn't pronounced (t, s, z, x, d, p, g)	The letters "oi" make the sound "wa"				
H is always silent	The following combinations make the sound "eh": et / er / ez / é				
The letters "qu" together don't make the sound "kw" but "k only"	The following combinations make the sound "ay": ai / ei / est / ê				
2	9				
The letters "gn" together make a sound unknown to English	The following combinations are nasal sounds: en, em, an, am, on, om, un, in,				
	im, aim, ain				

Can I open the window ?

Can I have a dictionary?

Je peux ouvrir la fenêtre ?

Je peux avoir un dictionnaire ?

Family n	To be			To have					
Tu as des frères et sœurs? Have you got any sibling?			Je suis	l am		J'ai I hav		I have	;
J'ai un frère / une sœur	I have a brother / a sister	nave a brother / a sister		You are		Tu as You ha		ave	
Je n'ai pas de frère et sœur	I don't have any brother o	don't have any brother or sister		He is				He ha	
Je suis fils / fille unique	I'm only child (son / daug	hter)	Il est Elle est	She is			Elle a She ha		-
Dans ma famille, il y a	In my family there are		On est **	One is			On a ** One ha		
trois / quatre / cinq personnes	Three / four / five people	ree / four / five people			We are **		lous avons We have *		
Mon père / mon oncle /	My dad / my uncle /		Nous sommes Vous êtes		You lot are		is avez		
mon cousin / mon grand-père	my cousin / my granddad	d	Ils sont	They ar		Ils o		They	
Mon demi-frère / mon beau-père	My step brother / my step	•		<u> </u>					
Ma mère / ma tante /	My mum / my aunt / my	cousin / my	Elles sont	They ar				They	nave
ma cousine / ma grand-mère	grand-mother	mathar			Physical ap	pea	irance		
Ma demi-sœur / ma belle-mère	My step sister / my step mother		J'ai les yeux bleus / verts / marron			I have blue / green / brown eyes			
Mes parents / mes cousins	My parents / my cousins		J'ai les cheveux blonds / roux /		I have blonde / ginger / brown /				
Mon jumeau / ma jumelle	My twin			châtain / noirs / gris / blancs		black / grey / white hair			
Je m'entends bien avec	get along with		J'ai les cheveux courts / longs / mi-		I have short / long / medium lenght /				
Expressin	g opinions		longs / raides / bouclés /frisés straight / curly / frizzy hair			ir			
Je peux avoir un stylo / un crayon?	Can I have a pen / a pend	Can I have a pen / a pencil ?		ousseurs	S	I have freckles			
iJe peux enlever ma veste ?	Can I take off my blazer ?		Je porte des lunettes Je suis grand(e) / de taille moyenne /		I wear glasses I am tall / average height / small				
Je peux ouvrir la fenêtre ?	Can I open the window ?		petit(e)		i am tali / average neight / small				
Je peux avoir un dictionnaire ?	Can I have a dictionary ?		Je suis gros(se) / mince /		I am big /slim /				
Personal	description		de taille moyenne / maigre average size / sk		•	dnny			
Je suis I'm funny	Je ne suis pas	I am not	Je ressemble à ma mère			I look like my mum			
marrant(e)/amusant(e)	·			Litt	le words an	d ex	oressions		
gourmand(e) greedy	bavard(e)	chatty	très		very		et		and
rigolo(tte) funny	paresseux/euse	lazy							
sympa / gentil(le) nice	méchant(e)	nasty	assez		quite	_	aussi	\rightarrow	also
généreux/euse generous	énervant(e)	annoying	un peu		a bit		cependant		however
travailleur/euse hardworki	ng sportif/ive	sporty 30			too (much)	_	mais		but
sérieux/euse serious	bavard(e)	chatty	vraiment	really		avec		with	
, , , , , , , , , , , , , , , , , , , ,	intelligent(e)	'	parce que	$\overline{}$		$\overline{}$	car		because

Badminton

Skills and Techniques

<u>Forehand</u>- A forehand shot is when you hit the shuttle on the racket side of your body. For example, if you are right handed you will hit the shuttle on the right side of your body.

<u>Backhand</u>- A backhand shot is where you hit the shuttle on from non-racket side. For example, if a right handed player needs to hit a shuttle on the left side of their body they will move their racket arm across their body to play the shot.

<u>Serve</u>-The first shot in a rally and must abide by serving laws. A serve can be performed either forehand or backhand. The best serves are either short serves and so land on or just beyond the service line, or long serves and land into the rear tramlines (or just in front of the tramlines in doubles). In full court games serves must travel diagonally.

<u>Return of serve</u>- The next shot after a serve and so the second shot in the rally.

<u>Grip</u>- There are 2 different grips. Forehand (for playing forehand shots) is like shaking hands with your racket. Backhand (for backhand shots) is where your thumb lies flat along the fat side of the racket handle and your fingers wrap around with your knuckles facing the ceiling.

<u>Footwork</u>- Badminton footwork consists mostly of side stepping, chasseing and running steps. Correct footwork allows you to move around the court faster and more efficiently. Regardless of the direction you are moving in or your position on the court your head should always face the net.

<u>Square on stance</u>- Standing square on means both of your shoulders are facing the net. This stance is useful when playing serves and net shots.

<u>Side on stance</u>- A side on stance is required when hitting any shots over head or when moving to the rear of the court.

Why play badminton?

It is an extremely popular competitive, recreational and school sport. It is one of the UK's most gender balanced sports.

Badminton is the fastest racket sport in the world and is brilliant for all round fitness.

Key words

Forehand Backhand
Serve Service line
Opponent

Equipment needed for 1 court

- Up to 4 Badminton rackets
 - Up to 2 Shuttlecocks
 - 2 Badminton posts
 - 1 Badminton net

Short backhand low serve



Ideal area to short serve to



Shots

Net shot- A net shot travels from the net area of the court on your side to the net area of the court on your opponents side. Good net shots travel low over the net and ideally lands in front of the service line. Net shots should be hit gently and the best net shots will hit the top of the net (the tape) and trickle over the net.

<u>Short serve</u>- Players stand just behind the service line. Short serves travel low over the net therefore are difficult to attack. The best short serves will skim the tape and land on the service line. A short serve is good as it allows the server to play an attacking shot from the very start of the rally.

Long serve-Players can stand wherever they like, but must still be behind the service line. A good long serve will reach the rear tramlines in singles or the rear of the service box in doubles. Although travelling deeper into the court long serves can still be hit flat in order to be attacking. This serve could be useful in pushing your opponent to the rear of the court in order to force them to play a weaker return.

<u>Clear-</u> A clear is a powerful shot hit from the rear of the court on one side of the net to the rear of the court on the other side. Clears should be played using a forehand grip with a side on stance and are a similar action to throwing a tennis ball. Hitting a clear will push your opponent deep into the court which makes it difficult for them to return.

Scoring

A badminton match consists of the best of 3 games to 21 points.

To decide who serves first players perform a coin toss/ racket spin/ shuttle toss.

To score a point you need to land the shuttle on your opponent's floor within the court boundaries without them being able to return it. You can also score a point if your opponent hits the shuttle in the net or outside of the court boundary.

Service Laws

Both feet must remain in contact with the floor at all times (you cannot lift or drag your feet)

- You can only make 1 smooth movement towards the shuttle, you cannot fake a serve
- The shuttle must travel in an upwards direction upon leaving your racket
- Your racket head must be lower than your racket handle
- You must strike the shuttle below your lowest rib
- You must stand behind the service line (you cannot be on any part of it!)
- Your serve must travel over your opponents service line to be in
- Serving when it is not your serve
- Serving from the wrong side of the court

Faults

- Touching the net whilst the shuttle is still in play
- Your racket or body being on your opponents side of the net whilst the shuttle is still in play
- Hitting the shuttle more than once before it travels over the net
- The shuttle touches a player
- Deliberately distracting your opposition

Tactics

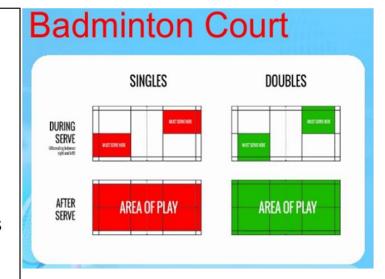
Get the shuttle over the net and in the court

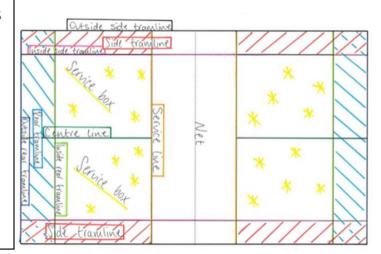
Hit a variety of shots

Play to your strengths

Play on your opponents weaknesses

Hit into space





Basketball

Key skills

Dribbling

Head up/spread fingers and fingertips bounce the ball/waist height

W grip/ Step/Chest to chest/Follow through/ short distance

W grip/ Step/Chest to chest/Follow through/ Bounce before player/ short distance

Knees bent/dominant foot slightly in front of other/strong hand at bottom/supporting hand on side/elbow at 90 degrees

Strong hand at bottom/supporting hand on side/keep it high/ Right hand dribble, step right, jump left aim for top right corner of box/left hand dribble, step left, jump right, aim for top left corner of box

Pivoting/Jump Shot

Landing on alternate feet- first foot to land is the static pivoting foot landing on simultaneous feet – either foot can become static pivoting foot/can be used at the end of a dribble or when receiving a pass On the move – release ball before third step.

Triple Threat Position

Knees bent/hands positioned on ball so ready to shoot/head up/can dribble, pass or shoot from here

Attacking

Dribble into space/screen defenders/dribble out wide and quick inward passes/drive towards ball to receive pass losing defender/overload zone defence.

Defending

Man to man/knees bent/back straight/head up/arms out/watch opponents belly-button .Zone marking/team defence around the key/take up positions around key when possession is lost

Rebounding

Involves maintaining possession after a shot has been taken. The team who has the most number of rebounds after the game has more shot attempts and chances to score.

Key skills

Offense

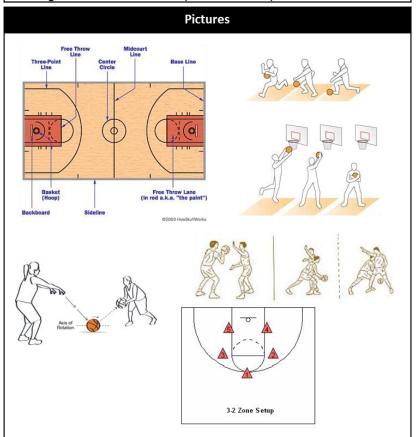
is the only chance that the team has a shot at the basket and scoring.

Defence

This is the prevention of a scoring opportunity or possession intervention.

Assist

This is given to a teammate to help him score easily



Techniques/Rules/Tactics	Offensive Alignments				
Rules The games consists of 2 teams with 5 players on court. Aim to score as many hoops, shooting through the hoop, as you	Single Post or Four Out alignment - This is used when a team has a good post-up player since it isolates the post One-on-One near the basket.				
can in the time allocated. Players cannot travel with the ball or perform a double dribble	The Single Stack alignment- This is used against pressure defence. Once the entry pass is successfully made, it isolates the post One- on-One				
Players cannot hold the ball for longer than 5 seconds If ball goes out of play then a side line ball is taken from the	Double Stack alignment - two posts are used to free up shooters. High Post alignment- This is used when teams do not have a big				
opposite team. Once the offense (attacking team) has brought the ball across the mid-court line, they cannot go back across the line during possession.	post player or when the post player is a good outside shooter, enabling the shooter to dribble.				
	The Open or Spread- This is sometimes called "Donut." This is a no post alignment whereby teams usually apply this to protect their lead at the end of a game.				
Foul are given for hitting, holding or pushing an opponent. If a player fouls the shooter, then 1-3 free throws can be	Key Words/Phrases				
awarded (each 1point). Scoring System	Offense				
3 points are awarded if the ball is successfully shot through the hoop from behind the three-point line. 2 points are awarded if	Defence Double Dribble				
the ball is successfully shot through 1 point – If a foul is committed. They have a free player is given one	Foul				
point for every successful foul shot.	Triple Threat Position				

Football

KPI 1 - Effectively performs a range of actions, skills and techniques with control, combining them appropriately both in isolation and small group settings.

KPI 2 - Successfully employs simple tactics or creative processes in practical settings.

The knowledge organiser will give you key information about the skills you will learn in year 7. It will include the key teaching points, aims of the skills and how it can be applied tactically. You can also look at the rules knowledge organiser for football to help you understand how to play the game.

Football club will be running during the academic year so keep an eye out on the PE OHSL sheet to find out when it is. There are also school fixtures as well so ask your PE teacher for further information if you are interested.

Passing

Aim of skill: To keep possession of the ball for your team

Tactics: It is used to move the ball into space, spread the ball wide to use the width of the pitch and create goal scoring opportunities. It prevents the opposition from getting on the ball, meaning they cannot score.

KTP: Place non kicking foot to the side of the ball, move kicking foot back in preparation, swing kicking foot forwards to contact the ball, use your arms for balance, have head up, lean over the ball to keep it down, follow through towards target for accuracy and power. You can use the side of your foot, outside of the foot and laces as techniques to pass.

Control

Aim of skill: To get the ball out of your feet so you can either pass, shoot or dribble.

Tactics: It used to get the ball down on the floor and out of your feet so that you can perform your next skill and keep possession for your team. Depending on height of the pass you can use head, chest, thigh or feet.

KTP: Get in line with the ball, Keep your head up and have your eyes on the ball, Present the side of your foot to control the ball, Non control foot should be planted on the ground, Take weight of the pass as it contacts your foot, use your arms for balance, push the ball out of your feet slightly so you are ready to carry out your next skill.





Goalkeeping - Basic Handling

Aim of skill: To gather the ball in and keep possession so the opposition cannot get a rebound.

Tactics: You need to be in the correct position and then select the appropriate technique in order to gather the ball in. Consistency is important to ensure there are no mistakes.

KTP: Get in line with the ball so your body is behind it, Have your head up and keep your eyes on the ball, Select the appropriate type of handling based on the height of the ball, ensure you gather the ball in and avoid spilling it, once possession is gained look for a suitable pass.

Dribbling

Aim of skill: To make up positive ground on the pitch and beat an opponent to create attacking opportunities for your team.

Tactics: It used to drive into open space on the pitch, beat an opponent to create space and draw other opponents out of position, and create goal scoring opportunities.

KTP: Use laces when dribbling at speed and driving into space, use side of foot and outside of foot when changing direction and needing close control, keep your head up, use your arms for balance, keep a low centre of gravity, use skills and body feints to fool opponents.



Shooting

Aim of skill: To score goals for your team so you can win the game.

Tactics: It is used to finish off goal scoring opportunities created by your team or force the opposition goalkeeper into a save that could create a rebound. You should aim for corners of the goal to make your shots harder to save.

KTP: Place non kicking foot to the side of the ball, move kicking foot back in preparation, swing kicking foot forwards to contact the ball, use your arms for balance, have head up, lean over the ball to keep it down and lean back to lift the ball high, follow through towards target for accuracy and power. You can use the side of your foot for accuracy, and laces for power.



Tackling - Block Tackle

Aim of skill: To win the ball back for your team so you have possession again.

Tactics: It is used when an opponent is attempting to dribble past you one on one, when there is a 50/50 tackle and when there is an opponent trying to pass or shoot. It is important to tackle at the right time so you do not get beat.

KTP: Stand between your opponent and the goal, stand in a slightly sideways stance so you can easily change direction, keep your body low, keep your eyes on the player and ball, wait for the right time to make the tackle, step into the tackle with non-tackling foot, use the side of the foot to make the tackle, follow through with the tackle to ensure you win the ball.



	Key terms and definitions		Warming up - Reasons	
Cardio-Vascular	The part of a warm-up that works the heart.	Prevention	To reduce the chance of injury	
(warm-up)		Preparation	To get the body and mind ready for more difficult physical	
Mobilisation	The part of a warm-up that works the joints.		work	
(warm-up)		performance	To improve practical ability	
Stretch (warm- up)	The part of a warm-up that works the muscles.		Warming up – Key facts and effects	
Joints	The place where bone meets bone, allowing movement to	We intake more	oxygen (breathing rate increases)	
	occur.	Our heart beats	faster	
Muscles	Attached to bones allowing the body to apply force.	Our blood flows	faster around the body	
Hamstrings	The long muscle down the back of the leg.	More oxygen is	carried to our muscles through increased blood flow	
Quadriceps	The large front thigh muscles.	Our body temperature rises (we may go more pink in colour)		
Abdominals /	The stomach muscles.	Our muscles become more flexible		
core		Our joints become more mobile		
Balance	The ability to evenly distribute body weight to hold a position	Our body releases heat through sweat		
	(in gymnastics can also include bridge, handstand, headstand)	We become more mentally and physically alert		
Control	The ability to move without falling or losing correct position.	Endorphins are released		
Rotation	The ability to turn around an axis (in gymnastics can also include cartwheel, walkover, round-off, somersault, flip)	Warming up - Components		
Roll	A rotation on a floor level (in gymnastics can also include pencil,	Cardio-vascular	Exercises that gradually increase the heart rate. Jogging,	
	teddy bear, forwards, backwards, sideways)		skipping, side stepping, star jumps, heel kicks, jumps,	
Elevation	The ability to rise up off the floor in a jump or leap		grapevines, high knees etc.	
Transition	Moving from one action to another / one section to another. A	Mobilisation	Exercises that increase freedom of movement in the	
	link that does not break the performance		joints. Usually circular or figure of 8 actions. Hip circles,	
Extension	The ability to stretch body parts away from body centre.		shoulder rolls, spine twists etc.	
Body Tension	Giving actions power and energy so that they look strong and	Stretching	Exercises that lengthen the muscles to improve flexibility.	
•	clear		Usually held actions for 8 – 10 seconds. Hamstring, quad,	
Sequence	A series of linked actions that flow		hip flexors etc.	
Routine	A completed gymnastics performance that includes sequences			
	of action linked with transitions to create flow			

	Key terms and definitions		Key terms and definitions
Big Bang	The explosion of energy that led to the formation of the Universe	Geological	It shows the time since Earth began
Universe	The universe is the whole of space and all the stars, planets, and	timescale	
	other forms of matter and energy in it.	Eon	The biggest block of time in the geological timescale
Star	A large ball of burning gas in space. Stars appear to us as small	Era	A timescale used to divide an eon into smaller units of time
	points of light in the sky on clear nights.	Period	A timescale used to divide an era into smaller units of time
Galaxy	A group of billions of stars	Precambrian eon	
Sun	The star round which the earth orbits.	Precambrian eon	From 4.5 billion years ago to 540 million years ago. Covers most of the time since Earth began
Gravity	The force of attraction that holds planets in the solar system, and	Phanerozoic eon	The eon that we are in now. Started 540 million years ago
	holds us on Earth	Quaternary	The period we are living in today. Started 2.6 million years ago
Planet	A planet is a large, round object in space that moves around a	period	The period for the many microsty control and a second and
	star. The Earth is a planet.		Key dates and events
Earth	Earth or the Earth is the planet on which we live. People		
	usually say Earth when they are referring to the planet as part of	13.8 billion years	A violent explosion of energy that led to the formation of the
	the universe, and the Earth when they are talking about the	ago	Universe
	planet as the place where we live.	4.6 billion years	The Sun is formed in the Milky Way galaxy
Moon	An object similar to a small planet that travels around a planet.	ago	
Volcano	A place where melted rock erupts	4.5 billion years	Dust and gases spinning around the Sun are pulled together by
Atmosphere	The layer of gas around the Earth	ago	gravity to form planet Earth, made of soft rock.
Ocean	One of the five very large areas of sea on the Earth's surface.	3.9 billion years	Earth has evolved into a planet with a soft inside and hard
		ago	exterior, which is being bombarded by meteorites
Meteorites	A chunk of rock that lands on Earth, from space	3.5 billion years	The first living cells appear on Earth, possibly from meteorites
Solar system	Made up of our Sun, the planets, their moons, and asteroids and	ago	that fell into the oceans that contained compounds.
	other floating objects.	550 million years	Different types of cells joined up so soft bodied animals
Cells	A cell is the smallest part of an animal or plant that is able to	ago	appeared.
	function independently. Every animal or plant is made up	475 million years	First life moves from water to land. Simple plants had evolved
	of millions of cells.	ago 230 million years	from algae. Dinosaurs appear on Earth. They evolved from species that
Evolution	The process by which new species of living things develop	ago	remained after a mass extinction due a huge volcanic eruption.
Algae	Algae is a type of plant with no stems or leaves that grows in	200 million years	First small mammals appeared on Earth – in a world where
	water or on damp surfaces	ago	dinosaurs ruled.
Mass extinction	When a large number of species die off; for example because an	66 million years	A huge asteroid strikes Earth. 75% of living creatures died.
	ice age arrives	ago	Mammals and birds flourished from this point onwards.
Asteroid	Large chunks of rock that orbit the Sun; it is thought that they are	2 million years	In East Africa, a species of human, related to apes, had appeared,
	material left over when the planets formed.	ago	walking upright.
Fossils	The hard remains of a prehistoric animal or plant that are	200,000 years	Human species evolved over time to become the species of
	found inside a rock.	ago	humans today, homo sapiens.

	Key terms and definitions		Key terms and definitions	
Plan	A map of a small area (such as a school, or a room) drawn	Line of latitude	How far a place is north or south of the Equator; it is	
	to scale		measured in degrees	
Scale	The ratio of the distance on a map to the real distance	Prime	An imaginary line that circles Earth from pole to pole; it is	
		Meridian	at 0° longitude	
Ratio	Usually written in the form a:b and can be used on maps to	The Equator	An imaginary line around the middle of Earth (at 0°	
	show the scale in relation to real life.		latitude)	
Sketch map	A simple map to show what a place is like, or how to get	Coordinates	Used to locate places on planet Earth using lines of latitude	
	there; it is not drawn to scale		and longitude	
Key	Provides the meaning of symbols and abbreviations used	Degree	Each line of latitude and longitude is divided up into	
	on a map		degrees. Latitude goes from 0° to 90°N and 90°S. Longitude	
Aerial	A photograph taken from the air	1	goes from 0° to 180° east and west	
photograph		Minutes	Each degree is divided into minutes. 1 degree = 60	
Grid lines	Horizontal (northings)and vertical (eastings)lines drawn on		minutes, or 1° = 60′	
	a map to help locate places on a map		Grid References	
Grid reference	A set of numbers, or numbers and letters, that tells you	A grid of squares	s helps the map-reader to locate a place. The vertical lines are	
	where to find something on a map	called eastings. They are numbered - the numbers increase to the east. The		
4 figure grid	A grid reference to locate a place within a grid square. The	horizontal lines are called northings as the numbers increase in an northerly		
reference	two numbers from each grid line make up the 4 figure grid	direction.		
	reference	Remember		
6 figure grid	A grid reference to locate a place more precisely within a	When you give a grid reference, always give the easting first: "Along the		
reference	grid square. The two numbers from each grid line, along	corridor and up		
	with a further number for each line make up the 6 figure		references can be used to pinpoint a location to within a	
	grid reference.	square.	references can be used to pimpoint a location to within a	
Compass	Used to locate direction on a map	Six-figure grid re	eferences	
points		-	necessary to be even more accurate. In this case you can	
Ordnance	Detailed maps of places drawn by the Ordnance Survey, to	II .	ch grid is divided into 100 tiny squares. The distance between	
Survey map	scale	-	the next is divided into tenths.	
Contour line	Line on a map joining places that are the same height	- One grid line and	A THE HEAT IS GIVINGEN HITO CERTIFIS.	
	above sea level	34 47 48	49 34 34 49 34	
Spot height	The exact height, in metres, at a spot on an OS map (look			
	for a number)			

How far a place is east or west of the Prime Meridian; it is

measured in degrees

Line of

longitude

	Topic: About the UK Key words and definitions					
Asylum seeker	A person who flees to another country for safety and asks for permission to stay there		Has different ethnic groups			
Climate	What the weather in a place is usually like, over the year	National	To do with the whole country			
Continent	One of Earth's great land masses; there are seven continents	North Atlantic Drift	A warm current in the Atlantic Ocean; it keeps the weather on the west coast of Britain mild in the winter			
Country	Humans have divided continents into political units called countries	Population	The number of people living in a place			
Economic migrants	People who move to a new place to find work and to improve their standard of living	Population density	The average number of people living in a place, per square kilometre			
Emigrant	A person who leaves his or her own country to settle in another country	Prevailing winds	The ones that blow most often; in the UK they are south west			
Immigrant	A person who moves here from another country, to live	Rural area	An area that is mainly countryside but may have villages and small towns			
Invader	Enters a country to attack it	Urban area	A built-up area (town or city)			
Leeward	Sheltered from the wind	Weather	The state of the atmosphere			
Local	To do with the area around you	Windward	Facing into the wind			
Migrant	A person who moves to another part of the country or another country, often just to work for a while					

Key Vocabulary	Definition
How has Warrington cl	hanged over time?
Historian	A person who studies the events of the past, usually by working with written sources, paintings and objects left behind.
Evidence	Material that can be used to learn about an event or individual to help decide if something is true.
Interpretation	A modern view of a historical event.
Chronology	Putting things into the order that they happened.
Timeline	A record of events marked in chronological order.
Change	When something becomes different
Continuity	When something stays the same
Sources	Usually pictures and texts from the time of the event.
Provenance	Where something comes from (i.e. its origin).
Inference	To use information and reach a conclusion on its meaning.
Judgement	To make a decision on something, or to reach an overall conclusion.
Significance	How important an event or individual is/was.
What was England like	before 1066?
Hunter-gatherers	People who survive by hunting, fishing, and gathering wild food.
Celts	A group of people who lived in England, they arrived around 500 BC.
Romans	A group of people who had a well-established Empire invaded Britain in AD 43.
Conquer	To take control of a place using military foce.
Anglo-Saxon	Someone born in Britain after the Romans left. They originally came from Germany and Belgium.
Invade	The use of armed force to enter a country.
Raid	A surprise attack on an enemy.
Archaeology	Studying the past usually by excavating (digging) for the remains that have left behind.
Farming	The activity or business of growing crops and raising livestock
Lords	A man of noble rank or high office; a nobleman.
Peasants	The bottom of the social system. They were given small pieces of land to farm on. In return they had to work on the land and
	provide taxes and food.
Invaders	People who come to try and take over a country.
Danelaw	The part of England where Danish (Viking) power had been strongest and which had kept some of its Danish laws instead of
	Anglo-Saxon ones. This limited the king's power.
Settlers	People who move to live in a new area.
Military	Use of soldiers or an army.

Why was England a bat	tlefield in 1066?		
Succession	Who should be the next King or Queen.		
Heir	The person who inherits (take over) after a King or Queen dies.		
Claimants	Person who claimed that they should be King.		
Witan	Group of men from the Church and Earls who advised the King. They had the final decision on who would be King after Edward died.		
Battle of Fulford	On 20 Sep 1066, Tostig and Hardrada attacked York. The Anglo-Saxon army led by Edwin and Morcar was defeated, although Edwin and Morcar did survive the battle.		
Stamford Bridge	A complete success for Harold. A surprise attack which resulted in Hardrada and Tostig's death.		
Viking	A group of people from Norway who invaded countries including England.		
Shield Wall	Anglo Saxon tactic (way of fighting a battle.) The soldiers would stand close together and put their shields up; making a wall that was hard to break.		
Housecarls	Godwinson's best soldiers. They were well trained and very loyal to him. Heavy axes could take down horses.		
Fyrd	The ordinary men of the Saxon army. Each 5 hides provided one man.		
Knights	Soldiers who had devastating charge potential, height advantage from riding their horse which meant they were able to strike downwards in combat.		
Archers	A soldier who was skilled at battling with a bow and arrows		
Foot soldiers	A mixture of Normans and soldiers-for-hire from all over Europe. Most were probably not trained to fight in co-ordination with the Norman knights.		
Battle of Hastings	Battle fought between Godwinson and William of Normandy. The battle lasted all day. William wins because of his skills as a leader, his tactics and luck.		
Bayeux Tapestry	An embroidered cloth, about 70 metres (230 feet) long, illustrating events leading up to the Norman Conquest and made between 1066 and 1077 for the bishop of Bayeux in Normandy		
Tactics	An action or strategy carefully planned to achieve a specific result		
How did William take co			
Coronation	When somebody is officially made King or Queen.		
Terror	To put fear into somebody to gain control of them.		
Harrying of the North	William punished the North of England for rebelling against him by sending soldiers to burn crops and houses, which caused starvation.		
Motte and Bailey Castles	Castles built by William to keep watch on the English. They were made up of a tall hill (motte) with a lookout tower (keep) on top to keep watch. Below there was a small village (a Bailey)		
Palisade	A wooden fence that protects the Motte and Bailey.		
	'		

Кеер	A strong wooden tower that provided a look out.	
Feudal system	A system that showed how important people were depending on how much land they had. William gave land to his barons,	
	who gave smaller amounts to their knights, who gave strips of land to peasants.	
Domesday Survey	A survey of England that how much land there was in England, as well as what was on the land, such as animals and houses.	
	This was used to decide how much tax was owed.	
Tax	Money that must be paid usually to the government or the king.	
Loyalty	To show your support for someone or something.	
Barons	Below the King. They were mostly Normans and William gave them land in return for loyalty.	
Land ownership	A person who owns the land.	
Church	A place of religious worship.	
Forest Laws	English forests owned by William to go hunting on. If anyone else hunted on them they were punished.	
Murdrum Fine	A fine that the Normans would use if one of their men was killed by an Anglo-Saxon.	

	Key terms and definitions		Key terms and definitions
Primary research	Primary research is research you conduct yourself It involves going directly to a source, usually customers and prospective customers in your target market, to ask	File	A file is a tool used to remove fine amounts of material from a work piece. It is common in woodworking, metalworking, and other similar trades
	questions and gather information	Import	Bring one document/image into another, import an image
Secondary	Secondary Research is a common research method; it		from the internet.
research	involves using information that others have gathered through primary research.	Contour	an outline representing or bounding the shape or form of something
Final design	Finished/ final design, that has been developed or selected from previous designs.	Annotation	a note by way of explanation or comment added to a text or diagram
CAD	Computer aided design	Tensol glue	A strong glue used to fuse plastics together.
CAM Hardware	Computer aided manufacture the machines, wiring, and other physical components of a computer or other electronic system, i.e. laser cutter	Laser cutter	Laser Cutting is a non-contact process which utilizes a laser to cut materials, resulting in high quality, dimensionally accurate cuts. The process works by directing the laser beam through a
Software	the programs and other operating information used by a computer, i.e. 2D Design		nozzle to the work piece. A combination of heat and pressure creates the cutting action
Vice	vice is a mechanical apparatus used to secure an object to	Complex	consisting of many different and connected parts
	allow work to be performed on it. Vices have two parallel jaws, one fixed and the other movable, threaded in and out by a screw and lever	Design Brief	The design brief was a useful tool or document to reference throughout the project's life as we had measurable goals. All key-personnel worked together on creating a design brief
client	a person or organization using the services of a professional person or company	Product analysis	Product analysis involves examining product features, costs, availability, quality and other aspects. Product analysis is conducted by potential buyers
Development	Concept development is a process of developing ideas to solve specified design problems	Pillar drill	A pillar drill is a free standing machine that uses a motor to rotate a drill bit. This drill bit then can be used to cut holes of
Scale	drawing which has been reduced or enlarged from its original size, to a specified scale	Acrylic	different diameters in different types of material Acrylic is a kind of plastic, fabric, fibre, or paint that's made
Wet and dry	A flexible latex impregnated waterproof backing paper		from acrylic acid
	coated with abrasive. Used wet or dry for sanding paint, primer and body filler. Coarser grades are ideal for removing major imperfections	2d design	A software package that allows users to draw basic to complex shapes on the computer to size and scale, will also link up to a laser.
Glass paper	paper covered with powdered glass, used for smoothing and polishing	Process	a series of actions or steps taken in order to achieve a particular end

Musical Elements-Key terms and definitions

Key terms	and definitions			
Tempo	The speed of a piece of music.	Texture	The layers used in a piece of music.	
Vivace	Lively and fast	Monophonic	One single layer	
Andante	Walking pace	Homophonic	Thick layers following the same pattern	
Moderato	Medium pace	Polyphonic	Lots of layers moving on their own	
Largo	Slow	Unison	All doing the same	
Accellerando	Getting faster	Harmony	The feel of the music.	
Rallentando	Getting slower	Major	Happy sounding	
Dynamics	The volume of a piece of music.	Minor	Sad Sounding	
Piano	Quiet	Rhythm/Metre	The rhythmic patterns and timing in a piece of music.	
Forte	Loud	Beats in a bar	How many beats are counted in the bar.	
Mezzo Piano	Medium Quiet	Time signature/Metre	4/4, 3/4, 6/8, 2/4	
Mezzo Forte	Medium Loud	Polyrhythm	Lots of rhythms played at once	
Crescendo	Getting Louder	Cross rhythm	Rhythms crossing over each other	
Diminuendo	Getting quieter	Syncopation	Rhythms off the main beat	
Sonority	The instruments heard in a piece of music.	Melody	The main tune in a piece of music.	
Strings	Violin, Cello, Viola, Double Bass, Harp	Steps/Conjunct	Notes in a tune close together	
Brass	Trumpet, French Horn, Trombone, Tuba	Leaps/Disjunct	Notes in a tune far apart	
Woodwind	Flute, Clarinet, Oboe, Bassoon, Saxophone	Scales	A pattern of notes to create a melody from	
Percussion	Drums, Cymbal, Maracas, Things You Hit	Structure	The sections of a piece of music.	
Band Instruments	Electric/Acoustic Guitar, Bass Guitar, Keyboard,	Binary	Section Order: A, B	
	Synthesiser	Ternary	Section Order: A, B, A	
Voices	Male/female voice, soprano, alto, tenor, bass	Rondo	Section Order: A, B, A, C, A	
		Arch	Section Order: A, B, C, B, A	
		Popular structure	Intro, Verse, Chorus, Bridge, Outro	

Idea Citizen Award Bronze Key Terms		iDEA	CLICK CEOP Internet Safety		
Neuron	Cells of the nervous system, called nerve cells or neurons, are specialized to carry "messages" through an electrochemical process	Internet Safety Keeping safe online			
Axon	A long and single nerve-cell process that usually conducts impulses away from the cell body	Cyber Bullying	The use of electronic communication to bully a person, typically by sending messages of an intimidating or threatening nature.		
DDoS	This stands for "Distributed Denial-of-Service Attack" and is when multiple systems flood the resources of a target system (usually a website) in order to	, , , , , , , , , , , , , , , , , , , ,			
Toolog	crash it. CEOP [Child Exploitation &Online Protection]		CEOP is a law enforcement agency and is here to help keep children and young people safe from sexual abuse and grooming online.		
Trojan	This is a virus that disguises itself as something else within code to avoid detection.	Digital Citizen	A digital citizen refers to a person utilizing information technology (IT) in order to engage in society		
Encryption	The process of protecting data by converting it into a scrambled or unreadable format.	OFCOM	the communications regulator in the UK. The monitor all TV, radio and line activity		
Pomodoro Technique	A time management method. The technique uses a timer to break down work into intervals, traditionally 25 minutes in length, separated by short		Internet History		
	breaks.	1962	A global interconnection of computers was first proposed and described by J.C.R Licklider.		
Network	Connect a computer to another computer, you create a "network of computers"	1965	The first Wide Area Network [WAN] expand more American computer scientists established the first WAN by connecting		
Ethical hacking	evaluate the security of and identify vulnerabilities in computer systems, networks for them to be improved .		the TX-2 computer in Massachusetts to the Q-32 computer in California.		
Password	A password is a string of characters used for authenticating a user on a computer system.	1969	ARPANET is switched on and expand more In September 1969, the budding internet was off the ground.		
Local Area Network [LAN]	A group of computers and other devices that are connected together over a network and are all in the same location—typically within a single building like an office or home	1983	Researchers began to assemble the "network of networks" that became the modern Internet. The online world then took on a more recognizable form in 1990, when computer scientist Tim Berners-Lee		
Server	computer or computer program which manages access to a centralized resource or service in a network.		invented the World Wide Web.		

	Spark Key terms and definitions		Design think	ring key Stages
CSS	Cascading Style Sheets is a style sheet language used for describing the presentation of a document e.g. the style	Empathise	Gain an empathic understanding of the problem you trying to solve $ \\$	
HTML	Hypertext Mark-up Language, a standardized system for tagging text files to achieve font, colour and graphics	Define	You should seek to define the problem using the information you gained in empathise	
MIRCOBIT	A small computer board designed by the BBC to be used for coding	Ideate	Start generating ideas	
LOW RES PROTOTYPING	A simple prototype of an idea, normally low cost and takes little time	Prototype	produce a numb of the solution	per of inexpensive, scaled down versions
IDEATION	Forming an idea	Test	Test the solution then use the information gained in the test to empathise again.	
			HTLN	VI / CSS
CONCEPTUAL MODEL	model constructed by the users in their mind to understand the working or the structure of objects	<title></td><td colspan=2>Defines a title for the document</td></tr><tr><td>EMPATHY</td><td>the ability to understand and share the feelings of another.</td><td><body></td><td>Defines the d</td><td>locument's body or content</td></tr><tr><td>DESIGN</td><td>Design thinking is a process for creative problem solving</td><td colspan=2>Defines a par</td><td>ragraph</td></tr><tr><td>THINKING</td><td></td><td>background-color</td><td>Defines the b</td><td>packground colour in CSS</td></tr><tr><td>CO-DESIGNING</td><td>When several different people for different fields design a</td><td></td><td></td><td colspan=2></td></tr><tr><td></td><td>product or object</td><td>font-family</td><td colspan=2>Defines the font in CSS</td></tr><tr><td>EXPERIENCE
DESIGN</td><td>Designing based on the experience of the user</td><td></td><td>3D D</td><td>DESIGN</td></tr><tr><td>HOW MIGHT
WE (HMW)</td><td>questions are short questions that launch brainstorms.</td><td rowspan=2 colspan=2>CAD
3D</td><td>Computer Aided Design. The use of computer-based models of objects</td></tr><tr><td>QUESTIONS</td><td></td><td>Three-dimensional. Descriptive of a</td></tr><tr><td>HUMAN-</td><td>involving the human perspective in all steps of the</td><td></td><td></td><td>region of space that has width, height</td></tr><tr><td>CENTERED</td><td>problem-solving process</td><td></td><td></td><td>and depth.</td></tr><tr><td>DESIGN</td><td></td><td>Fabricate</td><td></td><td>to construct or manufacture. To</td></tr><tr><td>CODING</td><td>the process of assigning a code to something for classification or identification.</td><td colspan=2>"make" your design."
almost anything thro</td><td>"make" your design. You can make
almost anything through 3D</td></tr><tr><td>DATA</td><td>facts and statistics collected together for reference or analysis</td><td></td><td></td><td>printing or laser cutting.</td></tr></tbody></table></title>		