



**Lionheart Educational Trust** 

# Knowledge Organiser Booklet

Year 7 Summer Term

### Ways to use your knowledge organiser

	Look, Cover, Write, Check	Self Quizzing	Mind Maps	Paired Retrieval	Definitions to Key Words
Step 1	Look at and study a specific area of your knowledge organizer.	Use your knowledge organizer to create a mini quiz. Write down questions using your knowledge organizer.	Create a mind map with information from your knowledge organiser.	Like self quizzing, use your knowledge organizer to create a quiz.	Write down the key words and definitions.
Step 2	Cover or flip the knowledge organizer over and write down everything you remember.	Cover or flip the knowledge organizer over and answer the questions and remember to use full sentences and key words/vocabulary.	Add pictures to represent different facts, knowledge. Try to categorise different areas in different colours.	Ask a family member to ask you the questions and tell you which ones you get right and which ones you get wrong.	Try not to use your knowledge organiser to help you.
Step 3	Check what you have written down. Correct any mistakes in a different coloured pen and add anything you missed. Repeat.	Check your answers. Correct any mistakes in a different coloured pen and add anything you missed. Repeat.	Try to make connections that link information together.	Following the quiz, summarise which areas you got wrong and need to revise further.	Use a different coloured pen to check you work and correct any mistakes you may have made.







#### Year 7 Shakespearean Comedy - AMSND

**Definition of Shakespearean Comedy:** A **Shakespearean comedy** is one that has a happy ending, usually involving marriages between the unmarried characters, and a tone and style that is light-hearted and joyful, serving to create enjoyment and laughter in audiences.

Typical genre features:	Archetypal characters:	Typical settings:	
Marriage and Romance – comedies often end on a wedding Wit and wordplay – punning and irony and bawdy humour A temporary domination of chaos and misrule Slapstick and physical comedy Use of singing and dancing and masques	Bumbling, working class, coarsely comic characters such as the mechanicals, often called the fool. Courtly, romantic, innocent and often naïve young lovers. A wise figure of authority, often associated with the return to order (such as Theseus) Supernatural figures of mischief Comic villains who often act as a temporary barrier to a comic resolution.	'The Green World' – contrasts civilisation with the natural and wild world. Weddings Distant and exotic Festivals or celebrations Highly imaginary settings (such as the magical world in A Midsummer Night's Dream.	

#### Social and Historical Context

Ancient Greek comedy is a series of loosely connected scenes which	
end in an expressive celebration of unity.	

During the Medieval era (or the middle ages), comedy was generally enjoyed in the form of a jester or fool.

During the 16 century in England what we now recognise as comedic drama emerged.

During the Renaissance, a comedy meant a play with a happy ending, not necessarily something that was humorous. In most comedies a happy ending involved marriage or the resolving of a conflict.

Comedy was traditionally seen as a less worthy form of drama than tragedy.

The restraint placed upon Shakespeare (that all female characters must be played by men) is exploited for comic effect as women often disguise themselves or dress up as men – in this way gender in comedies is often seen as fluid.

#### Values and ideas held by Comedy

Marriage represents the achievement of happiness and the promise of new life (in children).

There are often dark undercurrents in comedies but the plot allows for tragedy to be averted, even if audiences are left troubled by the character's behaviour.

Shakespearian comedies hold a mirror to audiences, mocking their follies and vices so as to comment on contemporary social issues (often described as satire).

Characters in comedies often sleep and see parts of the play's action as dreams allowing Shakespeare to present comedy as an escapist fantasy.

Much that is funny is derived from the misconception of young lovers. This misunderstanding is generally used to show how fickle young male lovers can be. Notable dramatic comedies (in chronological order)

Archarnians (425 BC) Aristophanes The Taming of the Shrew (1590) William Shakespeare A Midsummer Night's Dream (1596) William Shakespeare Much Ado About Nothing (1598) William Shakespeare Twelth Night (1601) William Shakespeare Volpone, or The Fox (1606) Ben Johnson The Tempest (1610) William Shakespeare The Revenge (1680) Aphra Benn She Stoops to Conquer (1773) Oliver Goldsmith The Importance of being Earnest (1895) Oscar Wilde The Birthday Party (1957) Harold Pinter



#### Year 7 A Midsummer Night's Dream Vocabulary Lists

dramatic irony	Stage direction	Informal	Charade
conspirator	Unity	Stately	Disorder
misrule	Green-world	Asides	Trickery
Bawdy	vices	Soliloquys	Premeditate
Slapstick	Parody	Prose	Convention
Courtly	Fantasy	Verse	Misconception
Exotic	Chaos	Speech	Deceive
Mocking	Resolution	Entrances	Farcical
Benign	Exits	Props	Folly

### Maths

### Year 7 Block 4 – Geometrical Reasoning



Parallel	Always the same distance apart and never meeting.
Perpendicular	At right angles (90°).
Origin	The point at which something, like an axis or number line, begins.
Line	Geometrical object that is straight, infinitely long and infinitely thin.
Line Segment	Part of a line that connect two points.
Ray	Part of a line with a start point but no end point.
Vertex	Point where two or more line segments meet; a corner. Vertices is the plural form.
Acute angle	An angle that is less than 90°.
Right angle	An angle that is exactly 90°.
Obtuse angle	An angle that is more than 90° but less than 180°.
Reflex angle	An angle that is more than 180°.
Complementary angles	Two angles which sum to 90°.
Supplementary angles	Two angles which sum to 180°.
Adjacent angles on a straight line	Sum to 180°.
Angles around a point	Create a full turn and sum to 360°.
Vertically opposite angles	Are created when lines cross at a point and are equal in size.

Congruent	Exactly the same shape and size. The shape can be flipped or rotated.
Similar	The same shape, but a different size. All corresponding lengths are in the same ratio. All corresponding angles are equal.
Scale Factor	The ratio of corresponding lengths in similar shapes.

### Maths

### Year 7 Block 4 – Geometrical Reasoning



Equilateral triangle	All sides are equal length and all angles are equal.		Poly	/gons
Isosceles triangle	Two sides (called the legs) are equal length and two angles are		Three sides	Triangle
	equal. The other side is called the base.		Four sides	Quadrilatera
Scalene triangle	All sides are different lengths and all angles are different.		Eivo sidos	Pentagon
	One angle measures 90° and is opposite the longest side, which is		Five sides	rentagon
Right-angle triangle	called the hypotenuse.		Six sides	Hexagon
Interior angle	An angle inside a shape, between two joined sides.		Seven sides	Heptagon
Interior angles of a triangle	Sum to 180°.		Eight sides	Octagon
Polygon	2-Dimensional closed shape where all sides are straight.		Nine sides	Nonagon
Regular Polygon	Polygon where all sides are equal length and all angles are equal.		Ten sides	Decagon
Quadrilateral	Polygon with exactly four sides.			
Interior angles of a quadrilateral	Sum to 360°.	Qua	drilaterals	
Diagonal	Line segment joining two non-consecutive vertices of a polygon.		Parall	elogram

Parallelogram	Quadrilateral with two pairs of parallel sides.
Rhombus	Quadrilateral with all sides equal length.
Rectangle	Quadrilateral with all angles are right-angles (90°).
Square	Quadrilateral with all sides equal length and all angles right-angles.
Kite	Quadrilateral with two pairs of adjacent sides equal length.
Trapezium	Quadrilateral with one pair of parallel sides.





#### KNOWLEDGE ORGANISER BIOLOGY: GENES - VARIATION



Key Word	Definition
Variation	Differences in characteristics within and between a species.
Inherited Variation	Variation between organisms caused by genetic factors.
Environmental Variation	Variation between organisms caused by environmental factors.
continuous variation	Characteristic that can take any value within a range of values.
discontinuous variation	Characteristic that can only be a certain value.
adaptation	Characteristic that helps an organism to survive in its environment.
Predator	An animal that eats other animals
Prey	An animal that is eaten by another animal
species	Organisms that have lots of characteristics in common, and can mate to produce fertile offspring.

#### Discontinuous Variation Characteristics that can be put into groups, where it can only result in certain values. Examples include blood group, eye colour and earlobe shape.

Discontinuous data is always plotted on a **bar chart**.



#### **Continuous Variation**

Characteristics that can take any value within a range e.g. **height**, **body mass** and **arm span**.

Continuous data is should be plotted on a **histogram**. This type of variation usually produces a curve known as a **normal distribution**.





#### Adaptations of predators

- Forward facing eyes
- Sharp teeth
- Sharp claws
- Powerful legs
- Camouflage



#### Adaptations of Prey

- Side facing eyes
- Sharp teeth
- Camouflage
- May have defences e.g. horns

#### Plant Adaptations:



Adaptations of Plants to hot conditions

- No leaves
- Spines
- Small surface area



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#### PHYSICS: ELECTROMAGNETS

Key Word	Definition
Cell	An electrical cell is a chemical store of energy which provides the push that moves charge around a circuit.
Battery	Two or more electrical cells joined together.
Potential difference	Is the energy transferred (or work done) when a coulomb of charge passes between two points in an electric circuit. Measured in volts, (V)
Voltmeter	A device for measuring potential difference.
Rating	The value of potential difference at which a cell or bulb operates.
Resistance	Resistance is caused by anything that opposes the flow of electric charge, measured in ohms, $\left(\Omega\right)$
Electrical conductor	A material that allows current to flow through it easily, has a low resistance.
Electrical insulator	A material that does not allow current to flow easily, and has a high resistance.
Series	A circuit with only one route for charge to take. The components are in the circuit are in the same loop.
Parallel	A circuit with more than route for charge to take. Some components are in separate loops.
Current	Flow of electric charge, usually electrons, measured in amperes (A)
Ammeter	A device for measuring electric current in a circuit
Electric charge	Charge is a property of a particle. It can either be positive or negative.
Electrostatic force	Non-contact force between two charged objects
Electricfield	A region where a charged material or particle experiences a force.

Circuit Symbols		
Symbol	Name	
$\neg \sim \circ$	Switch (open)	
- <b>+</b>	Cell	
- <b>+</b>   ⊢	Battery	
	Resistor	
$-\otimes$ -	Bulb	
-(v)-	Voltmeter	
-(A)-	Ammeter	
he <b>Ammeter</b> mu	ict ha nlacad i	

The **Ammeter** must be placed in series and placed anywhere in the circuit.

The **Voltmeter** must be placed in parallel around the component (so that it can compare the energy the charge has before and after passing through the component.) Name:

#### **Potential difference**

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The cell or battery provides the push to make charges move. The push is called a **potential difference**.

The potential difference tells you:

- Size of the force on the charges
- Energy transferred by the cell to the charges
- The energy transferred by the charges to the components in the circuit.



The rope represents the charge, the person pulling the charge is like the battery. A larger potential difference across the cell is like the "battery" person pulling harder.

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#### Resistance

Each circuit component has a different resistance. This tells you how easy or difficult it is for the charges to pass through the component. The charge starts flowing everywhere at the same time.



#### The flow of charge

Electrons are small negative particles that transfer energy. They can only transfer energy if they are free to move. **ELECTRICAL CONDUCTING** materials like copper and aluminium have a low resistance and allow electrons to move so a current can flow. Non-conducting materials like plastic have a high resistance and don't allow electrons to move. These materials are called **ELECTRICAL INSULATORS**.

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#### **PHYSICS: ELECTROMAGNETS**

Name:

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#### Charging up

Everything is made of particles called atoms. Atoms are made up of protons (positively charged), electrons (negatively charged) and neutrons (no charge). Atoms contain equal numbers of protons and electrons so overall an atom has no charge, it is **neutral**.

Blow up a balloon and rub it on your jumper. Some electrons are **transferred** from the jumper to the balloon.

- The balloon now has more electrons than protons
- The balloon is charged up.
- Now place the balloon next to a slow running tap. What happens?



Charged particles **attract** or **repel** each other. There is an **electrostatic force** between charges.

- Positive charges repel positive charges.
- Negative charges repel negative charges.
- Positive charges attract negative charges.

#### Van de Graaff Generator



When the Van de Graaff generator is switched on, each hair gains the same negative charge. Similar charges **repel** so the student's hair stands on end.

#### **Electric field**

There is an **electric field** around a charge. If you put a charged object in an electric field, a force will act on it. The electric field strength decreases as you move away from the charge.



#### KNOWLEDGE ORGANISER

PHYSICS: Energy – Transfer & work



Key vocabulary	
Energy	Associated with changes in temperature or with work
Joule	The unit of energy, symbol J.
Law of conservation of energy	Energy cannot be created or destroyed, only transferred.
Chemical energy store	Energy stored in the bonds of substances.
Thermal energy store	Energy in objects as a result of the motion of their particles
Kinetic energy store	Energy of moving objects.
Gravitational potential energy store	Energy of due to the position of an object in a gravitational field.
Elastic potential energy store	Energy stored when objects change shape.
Dissipation	Becoming spread out wastefully
Lubrication	Reduces friction by using oil or grease
Streamlining	Reduces air resistance (by reducing drag or resistance to motion.
Work	A way of transferring energy that does not involve heating.
Simple machine	A simple machine makes it easier to lift, move or turn things by reducing the force required to do the job.
Lever	A simple machine that multiples the force.
Gear	A rotating lever that reduces the force required to do work.

#### Key facts

The **Law of conservation of energy** states that energy cannot be created or destroyed, only transferred from one store to another. So the total energy change has the same value before and after a change.

Five important energy stores are chemical, thermal, kinetic, gravitational potential and

elastic.	Energy to do with	Type of store
	food, fuels, batteries	chemical
	hot objects	thermal
	moving objects	kinetic
	position in a gravitational field	gravitational potential
	changing shape, stretching, or squashing	elastic

When energy is transferred, it moves from one store to another, but the total amount of energy does not change. E.g. lifting a book empties chemical store in the person and fills gravitational potential energy store of book.

Energy is **dissipated** when it is transferred to the thermal store of the surroundings. This energy is **wasted** because it is difficult to use for a useful purpose.

You can show how much energy is transferred usefully using the ideas of **efficiency**: Efficiency (%) = <u>useful energy</u> x 100

energy input

You can reduce energy dissipation in a car by reducing air resistance using **stream lining** or reducing friction in the engine by **lubrication**.

Energy can be transferred by doing **work**. For instance you do work by lifting a book against gravity. Work done (J) = force  $(N) \times$  distance (m). A simple machine makes it easier to lift things, move things, or turn things. It reduces the force that you need do a job, or increases the distance that something moves when you apply a force.

The gear system on a bike is a simple machine.

Levers can be used to multiply an input force by increasing the distance from which the force is applied





#### KNOWLEDGE ORGANISER CHEMISTRY: ACIDS AND ALKALI



Section 1: Acids a Chemical reaction	A change in which atoms are rearranged to create new substances.	Section 2: Chemical reactions Chemical reactions involve a c create new substances. They a	change where atom are <b>not</b> easily <b>rev</b>	ns are rearranged to <b>ersible</b> . They also
Reversible	A change in which it is possible to get back to the original substances.	<b>transfer energy</b> to or from the s Chemical reactions are useful bec	surroundings. ause they make ma	, ny useful substances
Physical change	A change that is <b>reversible</b> , in which new substances are <b>not</b> made.	like medicines, fabrics and building Not all changes involve chemic dissolving are reversible but do no	g materials. cal reactions. Cha ot result in now sub	anges of state and
Acid	A solution with a pH value of <b>less than 7</b> .	These are examples of <b>physical</b> of	changes.	stances being made.
Alkali	An alkali is a <b>soluble base</b> .		-	
Base	A substance that neutralises an acid.	Section 3: Acids and alkalis When handling acids and alkalis	s in	
Corrosive	A substance is corrosive if it can burn your skin or eyes.	the lab, we need to take i account any safety precautions.	nto	
Irritant	A substance that makes your skin itch or swell up a little.	You can wear goggles to prot	tect	•
Concentrated	A solution is concentrated if it has a large number of solute particles per unit volume.	your eyes, and gloves to ke solutions off your skin.	eep corrosivo	irritant
Dilute	A solution is dilute if it has a small number of solute particles per unit volume.	Concentrated acids are corrosi	The hazards dep acid/alkali you u	bend upon the se and whether the
Indicator	Substance used to identify whether unknown substances are acidic or alkaline.	added) then it will be an irritant.	solution is conce	entrated or dilute.
Litmus	An indicator that changes colour upon addition of acid or alkali.	Section 4: Indicators and pH You can use an indicator to fir	nd out whether a	solution is acidic or
Universal indicator	An indicator that changes colour upon addition of acid or alkali (shows the pH of a solution).	alkaline. The dye turns a differen	t colour in acidic and Colour in dilute	d alkaline conditions. Colour in dilute
pH scale	Shows whether a substance is acidic, neutral or alkaline.		hydrochloric acid	sodium hydroxide
N		Juice extracted from red cabbage	Red	Yellow/green
Neutral	An object or particle that has no charge	Juice extracted from Beetroot	Red/purple	yellow
Strong acid	An acid in which all of its particles have split up when it dissolves in water.	Red Litmus	Red	blue
Weak acid	An acid in which only some of the acid particles split up when it dissolves in water	Blue litmus	Red	blue
Neutralisation	In a neutralisation reaction, an acid cancels out a base (or vice versa).	less than 7 is acidic, the lower th of 7 is neutral. Above 7 is alk	r upon addition of a le pH the more acid aline and the high	icia or aikall. A pH of ic the solution. A pH er the pH the more
Salt	A compound in which the hydrogen atoms of an acid are replaced by atoms of a metal element.	alkaline it is. Acidic pH 0-6	Neutral	pH 8-14 Alkaline



#### KNOWLEDGE ORGANISER CHEMISTRY: ACIDS AND ALKALI



Section 5: Acid strength	Section 7: Making salts
Hydrochloric acid, sulphuric acid and nitric acid are <b>strong acids</b> because all of their particles split up when dissolved in water.	<ul> <li>When a neutralisation reaction happens a salt is made</li> <li>A salt is a substance that forms in the chemical reaction of an acid with:</li> <li>A metal</li> <li>a suitable metal, metal carbonate, metal oxide or metal hydroxide is reacted with acid</li> </ul>
Citric acid (in lemons) and Ethanoic acid (present in vinegar) are <b>weak</b> <b>acids</b> because only some of their particles split up when they dissolve in water.	With metal       Acid + Metal → Salt + Hydrogen         Hydrochloric + magnesium → magnesium chloride + hydrogen         acid         Acid + Metal Hydroxide → Salt + Water         With alkali         Acid + Metal Oxide → Salt + Water         With alkali
More concentrated solutions of acids Concentration is the amount of acid have lower pH dissolved in water to make 1 litre of Less concentrated solutions have solution. It's a measure of the higher pH. number of particles in a given If the concentration is the same, volume of solution. If the number of solution is the same, then strong acids will have a lower pH than weaker acids.	base       Sulfuric + copper → copper sulfate + water         (metal acid oxide)         Section 8: Making crystals of salts         Crystals of salt are made by removing water from salt solutions using filtration and evaporation.
Section 6: Neutralisaton         When an acid reacts with an alkali, a neutralisation reaction occurs. The acid has cancelled out the alkali and the pH is 7.         A base is a substance that neutralises an acid. Some bases dissolve in water. A soluble base is called an alkali.         How is neutralisation useful?	<ul> <li>Crystallisation</li> <li>Pure dry crystals can be obtained from solution by:</li> <li>Add solid metal, metal oxide or metal hydroxide to an acid.</li> <li>Add solid until no more reacts.</li> <li>Filter off excess unreacted solid.</li> <li>Evaporate to remove some of the water.</li> <li>Leave to crystallise in an evaporating basin.</li> <li>Filter the crystals and leave to dry in air.</li> </ul>

Be REFLECTIVE: Review your learning



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Name:

Be REF	LECTIVE: Review your learning	Chemistry: Metals and non-metals	
Key word	Definition	Properties of metals and non-metals	When metals react
Element	a substance that cannot be broken down in to other substances. Contains one type of atom.	Metals are on the <b>left</b> of the stepped line in the periodic table, non-metals are on the <b>right</b> . Metals have high melting points <b>(except Mercury</b> which is a liquid), are shiny most are good	they do so
Periodic table	A table of all the elements, in which elements with the similar properties are grouped together.	conductors of heat and electricity, high density, malleable and ductile.	nearer the top of the reactivity series the
Chemical symbol	A one or two letter code for an element.	have low density and are brittle.	more reactive they
Metal	Elements on the left hand side of the periodic table. Shiny, most are good conductors of heat & electricity.	Reactions: Metals + acids General equation: Metal + Acid $\rightarrow$ Salt + hydrogen gas	are.
Non-metal	Elements on the right hand side of the periodic table. Dull, most are poor conductors of heat and electricity.	Example ( <i>words</i> ): Iron + Hydrochloric acid → Iron chloride + Hydrogen Observation: Bubbles / Fizzing (as hydrogen gas produced)	Reactivity series
Physical property	A property of a material that you can observe or measure.	Reactions: Metals + oxygen	REACTIVE
Chemical property	How a substance behaves in its chemical reactions.	Example (words): Calcium + Oxygen $\rightarrow$ Calcium Oxide Observation: Metals with oxide layers can be dull not shiny and when reacting with oxygen	Sodium
Oxide	A substance made up of a metal or non-metal element joined to oxygen.	they can glow bright and give off heat, e.g. Magnesium burning	Calcium
Oxidation	A chemical reaction in which a substance combines with oxygen.	Reactions: Metals + water         General equation:       Metal + water → metal hydroxide + hydrogen gas	Aluminium
Ductile	Can be drawn out into wires.	Example (words): Calcium + water $\rightarrow$ Calcium hydroxide + Hydrogen	Zinc
Malleable	Can be hammered into shape.	Magnesium reacts very slowly with water to produce the metal hydroxide and hydrogen, but it	Iron
Reactant	A starting substance in a chemical reaction.	reacts quickly with steam to give the metal oxide and hydrogen.	Lead
Product	A substance that is made in a chemical reaction.	Magnesium + water → Magnesium oxide + Hydrogen	Copper
Salt	A compound in which the hydrogen atoms of an acid are replaced by atoms of a metal element.	Using the <b>reactivity series</b> a more reactive metal will <b>displace</b> a less reactive metals from their compounds	Silver Gold
Reactive	A substance is reactive if it reacts vigorously with substances.	Example: Zinc + Copper sulphate $\rightarrow$ Zinc sulphate + Copper $7n_{s} + CuSO_{s} \rightarrow 7nSO_{s} + Cuso$	UNREACTIVE
Reactivity series	A list of metals in order of how vigorously they react.	Observation: Iron metal forming (zinc more reactive than copper so it displaces it.)	
Displacement	Reaction where a more reactive metal takes the place of a less reactive metal in a compound.	A reaction with a less reactive metal will not work. E.g. Thermite reaction mixes 2 powders & heating them strongly. It's a very exothermic reaction.	

### History



almost 100 years after its capture during

the First Crusade

1. Background – The Crusades	2. Saladin	3. Battle of Hattin (1187)
<b>The Holy Land</b> – the area including Jerusalem and the surrounding area is an important religious site for three world religions (Christianity, Islam and Judaism)	1137/38 – Saladin was born in Tikrit in modern day Iraq 1148 – witnesses the major battle between Muslim forces and the 2 <sup>nd</sup> Crusade at Damascus	<ul> <li>By 1187 Saladin was powerful enough to challenge the Crusaders for control over the Holy Land</li> </ul>
<b>First Crusade</b> – was an attempt by Christians to seize control of Jerusalem and the Holy Land at the end of the 11 <sup>th</sup> century	1168/69 – now part of the Syrian army of Nur al-Din he helps his uncle Shirkuh to conquer Cairo	<ul> <li>There had been increasing tension between Christians and Muslims partly due to the behaviour of Reynald of Chatillon</li> </ul>
<b>Siege of Jerusalem (1099)</b> – the First Crusade captured Jerusalem massacring its inhabitants and pillaging the city		<ul> <li>Reynald had enraged Saladin and many other Muslims by attacking pilgrims journeying to the Holy city of Mecca</li> </ul>
<b>Crusader States</b> – following the success of the First Crusade four crusader states were established in the Holy Land to consolidate Christian control over the region		<ul> <li>Saladin gathered a huge army of 30,000 men, half of which was made up of cavalry, he was determined to drive the Christians out of the region</li> </ul>
Second Crusade (1147-49) – was launched after the Turkish general Zenga captured the city of Edessa in the Holy Land. However, this crusade was much less successful and failed to recapture Edessa		<ul> <li>Saladin successfully lured the Crusaders into an ambush at the battle of Hattin in July 1187. The Crusaders army which consisted of 20,000 men was almost completely destroyed</li> </ul>
<b>Saladin</b> – as a young boy growing up in Damascus Saladin witnessed the major defeat of the Second Crusade. His older	1170 – following the death of his uncle he is chosen as the new leader (vizier) of Egypt	<ul> <li>Saladin personally cut off the head of his greatest enemy, Reynald of Chatillon</li> </ul>
brother Shahanshah was killed in the fighting.	an opportunity to unite the Muslims of the Middle East in a Holy War against the Crusaders	<ul> <li>Jerusalem was now at the mercy of Saladin and he was able to advance upon the city ready to seize it back from the Crusaders</li> </ul>

1174-83 – Saladin takes over cities in Syria ready for his confrontation with the Christians

# History



1. Retaking Jerusalem	2. The Third Crusade	3. Why was Saladin so successful?
20 <sup>th</sup> September 1187 – Saladin arrives outside the	Launching the crusade – the news that Jerusalem	a) Trust – Saladin kept his word which helped to
city walls of Jerusalem	had fallen to Saladin was greeted with great shock	build trust from his followers
Siege of Jerusalem – Saladin's forces attacked the city walls using Mangonels and burning underneath their foundations	Pope Gregory VIII launched the Third Crusade to retake the Holy City and the kings of Germany, France and England all agreed to participate	<b>b) Ruthlessness</b> – although his reputation suggests that Saladin treated his enemies with respect he could be ruthless when required, e.g.
Map of the Holy Land at the time of the Third Crusade Market Bilden Market Bilden	<ul> <li>Richard vs Saladin</li> <li>The Third Crusade became a battle between Richard the Lionheart (English king) and Saladin</li> <li>Richard arrived in the Holy Land in 1191 and helped the Crusaders to take the city of Acre</li> <li>Richard then attempted to march south and take back Jerusalem for Christianity but his path was blocked by Saladin's army</li> <li>The winter of 1191-92 developed into a</li> </ul>	<ul> <li>he had two of his enemies crucified in Cairo</li> <li>c) Luck – the death of his uncle, Shirkuh, and the ruler of Syria, Nur al-Din, were both fortunate for Saladin and helped him to build his power base</li> <li>d) Merciful – following his victories Saladin was careful not to slaughter and plunder his enemies he understood that if you humiliated your rivals you would turn them into a permanent enemy</li> </ul>
<b>Negotiations</b> – by October 1187 the city walls had been breached and Saladin began negotiations for the surrender of Jerusalem	stalemate with Richard unable to advance on Jerusalem, eventually an exhausted Richard decided to return back to Europe on 9 <sup>th</sup> October 1192	
Saladin the merciful – Saladin was keen to avoid the bloodshed that had occurred when the crusaders had taken Jerusalem almost one hundred years before	<ul> <li>The Third Crusade was over and Jerusalem remained under the control of Saladin</li> </ul>	
<b>Ransom</b> – after a ransom of 30,000 dinars was paid the inhabitants of the city were allowed to	<ul> <li>Saladin was also exhausted after years of conflict with the Crusaders and on 4<sup>th</sup> March 1193 he died</li> </ul>	
	<ul> <li>The legend of Saladin suggests that he</li> </ul>	C HERREY C

died virtually penniless



#### Knowledge Organiser – Mansa Musa and the Mali Empire



1. Reasons for the success of the Mali Empire	2. The Great Hajj (1324)	3. Timbuktu
<b>Geography</b> – Mali was a fertile country and its people could grow	1324 – Mansa Musa sets out on a religious pilgrimage to Mecca, the journey covered about 3,000 miles	Mansa Musa wanted the city of Timbuktu to be his greatest legacy
enough food for themselves and have surplus to trade. They learned how to use weapons from iron and horses	The emperor took 60,000 followers (including	He paid the architect Al-Sahili to build a new mosque in the city
for transport. This helped them to create powerful armies	with him Mansa Musa	Timbuktu became a centre for learning with thousands of manuscripts in its
<b>Trade</b> – Mali sold Gold and Salt to North African traders and bought silks from China, spices from India and Persian fabrics		famous libraries The city became like a medieval European university and attracted students and academics from across West and North
<b>Islam</b> – a common religion helped to tie the different peoples who were part of the empire together		Africa Timbuktu became known as the 'pearl of Africa'
Security – Mansa Musa protected his	In July 1324 he spent the summer in Cairo and gave so much gold away as gifts that the	4. The Decline of the Empire
people and traders from attack helping to increase the flow of trade	precious metal started to lose its value in Egypt	Following Mansa Musa's death the Mali Empire broke apart losing territory
<b>Propaganda</b> – Mansa Musa used griots (musicians and poets) to spread stories about the empire across West Africa	During his time in Mecca he spent time with other worshippers and met great Islamic scholars and Imams. He invited some of them to return to Mali with him.	including Timbuktu Eventually West Africa was taken over by European powers and Mali became a Erench colony

History

#### Knowledge Organiser – 1. Start of the Tudor dynasty



The Wars of the Roses	Battle of Bosworth (1485)	Henry 7 <sup>th</sup>
<ul> <li>In the 15<sup>th</sup> century two rival English families, the House of Lancaster and the House of York fought for control of the English crown</li> <li>1461 Battle of Towton – Edward IV (Yorkist) destroyed the Lancastrian army and seized</li> </ul>	<ul> <li>In August 1485 Henry Tudor (House of Lancaster) invaded England and attacked Richard</li> <li>The key battle took place at Bosworth in Leicestershire on 20<sup>th</sup> August 1485</li> <li>Bichard's forces were defeated by Henry's army</li> </ul>	<ul> <li>Henry VII was aware that he was vulnerable during his early years as king</li> <li>He took a number of steps to ensure that he was not overthrown or challenged:</li> </ul>
<ul> <li>Edward died in 1483</li> </ul>	<ul> <li>Anthald's forces were dereated by henry's anny and Richard was killed on the battlefield</li> <li>Henry VII became the first Tudor monarch</li> </ul>	<ol> <li>He married a rival – even though he was a Lancastrian Henry married Elizabeth of York (the sister of Richard III) thus uniting the two</li> </ol>
<ul> <li>The Princes in the Tower</li> <li>When he died Edward had two sons Edward (aged 12) and Richard (aged 10)</li> <li>The plan was for his eldest son Edward to become the next king – but Edward IV's brother Richard (Duke of Gloucester) was named the boy's Protector – to help him to rule whilst he was young</li> <li>However, the two young princes were taken to the Tower of London and disappeared</li> <li>Richard then crowned himself king of England – Richard III</li> <li>Many historians suspect that Richard may have murdered the princes but there is no clear evidence for this</li> </ul>	<ul> <li>Henry VII first Tudor monarch</li> <li>Henry VII first Tudor monarch</li> <li>The king in the car park</li> <li>In September 2012 Richard III's bones were discovered beneath a car park in Leicester</li> <li>Local archaeologists tracked down his remains to site of the old Greyfriars monastery which had been demolished in 1538</li> <li>The king's skeleton bore the traces of ten wounds, including two lethal blows to his skull, and DNA testa park the the testa sere used the the testa sere used the testa sere used the testa testa were testa t</li></ul>	<ul> <li>(the sister of Richard III) thus uniting the two families</li> <li>2. He banned private armies – many of the powerful noble families in England had their own private armies that they could use to challenge Henry – so the king passed a law banning private armies</li> <li>3. He made sure he had the best weapons – Henry made sure he had the best cannons in England as these were the most feared and destructive weapon in the late 15<sup>th</sup> century</li> <li>4. He forced people to give him money – Henry made the rich people in England pay him heavy taxes</li> <li>5. He made alliances with other countries – to avoid any challenges from abroad Henry made alliances with foreign powers through marriage e.g. to form an alliance with Spain Henry's eldest son (Arthur) was married to the Spanish princess, Catherine of Aragon and when Artur died he got his younger son Henry to marry her as well</li> <li>6. He made sure everyone knew he was king -</li> </ul>
ichard III	<ul> <li>and DNA tests proved that the bones were his</li> <li>Thousands of people came to see his coffin</li> <li>In 2015 Richard was buried in Leicester</li> <li>Cathedral and huge crowds came to pay their final respects</li> </ul>	he created a new Tudor rose symbol and this appeared everywhere across his kingdom in churches, paintings, palaces and cathedrals, by the time of his death in 1509 England was at peace and the throne was safe

Richard III

### **Religious Studies**

reproduce

Secular

Philosophy

Humanism,

Monotheism Polytheism

Creationism

cosmological

Revelation

Evolution

Natural

Selection

Big Bang

Red shift

Einstein

Dawkins

Darwin

Darwinism



Knowladaa Onemiaan Van 7			Hinduism Buddhism and Sikhism		
Knowledge Organiser year /	Ahimsa Hindu an		u and Buddhist practice of on-injury to living things; the rule of non-violence		
Topic 1	Diety	a god	or goddess (in a polytheistic religion).		
'How did we get here?'	Hinduism	Hindu they	<i>iism</i> is an Indian religion, which has many gods and teaches that people have another lite on earth atter die.		
riow did we get here?	Trimurti	in Hir	iduism, triad ot the three gods Brahma, Vishnu, and Shiva.		
Key words and Secular language	Brahman	the u of all	ltimate reality underlying all phenomena in the Hindu scriptures "Brahman is formless but is the birthplace forms in visible reality"		
Philosophy comes from the Greek word meaning the love	Bhrama	a Hin the D	du god: in later Hindu tradition, the Creator who, with Vishnu, the Preserver, and Shiva, estroyer, constitutes the triad known as the Trimurti		
of knowledge. It is the study of the basic ideas about knowledge, right and wrong, reasoning, and the value of things.	Vishnu	the so His ro	econd god in the Hindu triumvirate (or i rimurti) Vishnu is the preserver and protector ot the universe. ole is to return to the earth in troubled times and restore the balance of good and evil		
Humanists believe that human experience and rational thinking provide the only source of both knowledge and a manual determined by the source of both source of both source of the sou	Shiva	One of forms	of the principal Hindu deities, worshiped as the destroyer and restorer ot worlds and in numerous other s		
revealed' to live by. They reject the idea of knowledge 'revealed' to human beings by gods, or in special books the doctrine or beliet that there is only one God	Buddhism	a relig of soi is thr	gion, originated in India by Buddha (Gautama) and later spreading to China, Burma, Japan, 11bet, and parts utheast Asia, holding that life is full of suffering caused by desire and that the way to end this suffering ough enlightenment.		
The beliet in or worship ot more than one god.	Enlightenment	thes	tate of having knowledge or understanding		
the beliet that God created all things out ot nothing as described in the Bible and that therefore the theory of	Buddha	Buddi	ha is the title given to Gautama Siddhartha, the religious teacher and tounder of Buddhism		
evolution is incorrect	Dalai Lama	the sp and t	piritual head of Tibetan Buddhism and, until the establishment of Chinese communist rule, the spiritual emporal ruler of Tibet		
	Sikhism	a mon	otheistic religion tounded in Punjab in the 15th century by Guru Nanak		
the divine or supernatural disclosure to numans of some- thing relating to human existence	Guru Granth Sahib	nth The sacred text of Sikhism, considered by Sikhs as the eleventh and final guru and as the repositor revelation to humankind			
The process by which different kinds of living organism are believed to have developed from earlier forms during	Guru Nanak	Indian religious leader who tounded Sikhism			
the history of the earth.	Gurus	an influential teacher			
Natural selection means that some individuals in a spe-			Abrahamic religions—Christianity, Judgism and Islam		
cies are better at surviving than others and will have more children	Abrahamic religions		ons Islam, Christianity and Judaism are the three main Abrahamic religions because Abraham - or Ibrahin is important to them all. They consider him an important prophet or father figure.		
universe according to the big bang theory	Islam		Islam, major world religion that emphasizes monotheism, the unity of God ('Allah' in Arabic), and Mu-		
It is a result of the space between the Earth and the			hammad (PBUH) as his final messenger in a series of revelations.		
light waves during their journey to us, shifting them towards the red end of the spectrum. The more red- shifted the light from a calaxy is the faster the calaxy	Christianity Judaism Quran		Christianity is the most widely practiced religion in the world, with more than 2 billion tollowers. The Christian faith centers on beliefs regarding the birth, life, death and resurrection of Jesus Christ		
is moving away from Earth.			Judaism is the world's oldest monotheistic religion, dating back nearly 4,000 years. Followers ot Juda- ism believe in one God who revealed himself through ancient prophets.		
widely acknowledged to be one of the greatest physicists of all time. Einstein is known for developing the theory of			the Islamic sacred book, believed to be the word of God as dictated to Muhammad by the archangel Gabriel and written down in Arabic.		
relativity	Bible		the Christian scriptures, consisting of the Old and New Testaments		
ogist and author	Tanakh		The Jewish Bible is known in Hebrew as the Tanakh, an acronym of the three sets of books which com- prise it: the Pentateuch (Torah), the Prophets (Nevi'im) and the Writings (Ketuvim).		
lish naturalist, geologist and biologist, best known for his	stewardship		the job of supervising or taking care of something		
contributions to the science of evolution	Dominion		ruling or controlling power		
Darwinism is a theory of biological evolution developed by the English naturalist Charles Darwin and others, stating	Genesis		The Book of Genesis is the tirst book of the Hebrew Bible and the Christian Old Testament. In Judeo- Christian traditions it is viewed as an account of the creation		
that all species of organisms arise and develop through	Eden		the garden where according to the account in Genesis Adam and Eve tirst lived		
increase the individual's ability to compete, survive, and reproduce	Adam & Eve/H	lawa	Adam and Eve (Hawa in Islam) are the Bible's first man and first woman. Adam's name appears first in Genesis 1 with a collective sense, as "mankind"		

# **Religious Studies**



#### Knowledge Organiser: Topic 2—'How should we care for the environment?'

Key words					Key Knowledge on the environment		
1	Stewardship	The basis that God owns the world as seen in Genesis but has given humans the responsibility to look after, and care for, the world.	1	Stewardship	A good example of stewardship is a steward at a sports match/concert- the look after the people on behalf of the company: we look after God's creation on his behalf.		
2	Dominion	still does not mean we own it but can use it.	2	Dominion	The idea that God allows us to rule over his creation		
3	Instrumental worth	Having value based on its usefulness (usually to humans due to anthropocentrism).					Some say to do as we see tit but this is often fied to stewardship and therefore requires an element of com-
4	Intrinsic worth	Having value in itselt, not due to usetulness.			care of the planet.		
5	Humanism	The idea that the scientific method, evidence, and reason ought to be used to discover truths about the universe and thus human welfare and happiness are at the centre of their ethical decision making.	3	Sanctity of life	The belief that all human life has value and therefore needs to be cared for. This concept can be linked to stewardship e.g using air con excessively and other western luxuries have an impact on LEDC's. It is only		
6	Sanctity of Life	The idea that all HUMAN life has value and so therefore we need to care for all.			about humans.		
7	Ahimsa	The concept of 'non-violence' within the Vedic religions e.g. Hinduism and Buddhism.	4	Green Chris-	These are Christians who respond to the ecological crisis		
8	Halal	Means to be 'permissible' under Islamic law and haram means to be 'not permissible' according to Islamic law.		nans	more gently on the earth, and lessen their impact on God's creation as a whole.		
9	Ecological sin	Pope Francis has shown a care for the environment by stating that not caring for the world is sinful (sin = going against God).	5	Environmental rights	Having access to the unspoiled natural resources that enable survival, including land, shelter, food, water and air		
10	Sustainability	Avoidance of the depletion of natural resources in order to maintain an ecological balance; not wasting things and conserving for the future.		1			

	Key Knowledge on animals				
1	Ahimsa	The concept of 'non-violence' within the Vedic religions e.g. Hinduism and Buddhism. In Buddhism, this links to the First Moral Precept of 'abstain from harming any living thing' as it causes dukkha (suffering) which is an unskilful action. In Hinduism, all living beings have souls therefore it is wrong to harm.			
2	Halal	Means to be 'permissible' under Islamic law and haram means to be 'not permissible'. In the context of food, there are several rules regarding this that reflect the Qu'ran and Sharia law. The most famous are the methods of slaughter but some food is forbidden too such as pork.			
3	RSPCA view on the slaughter of animals	They think that animals should only be killed if it is as free from suffering as possible. "We're opposed to the slaughter of any animal without first ensuring it is… stunned prior to slaughter. Evidence clearly indicates that slaughter without pre-stunning can cause unnecessary suffering."			
4	Animal rights	This reters to the idea that animals deserve certain kinds ot consideration—consideration ot what is in their best interests.			
5	Greenpeace	Greenpeace is an organisation and movement of people who are passionate about defending the natural world from destruction. Their vision is a greener, healthier and more peaceful planet, one that can sustain life for generations to come.			

### Religious Studies



#### Knowledge Organiser: Topic 3—'How should we treat each other?'

	Key words			Vedic Religions—Hinduism, Buc	ldhism and Siki	nism			
Equality	the state of being equal,	Ahimsa	Hindu	Hindu and Buddhist practice of on-injury to living things; the rule of non-violence					
	especially in status,	Diety	a god	or goddess (in a polytheistic religion).					
		Trimurti	in Hin	iduism, triad of the three gods Brahma, Vishnu, and	l Shiva.				
Equanimity	This means an equal atti- tude towards everyone.	Brahman	the ul forms	ltimate reality underlying all phenomena in the Hind s in visible reality"	lu scriptures "B	rahman is formless but is the birthplace of all			
Personal	These are your own	Langar	The	Sikh practice of sharing food with the community.					
Conviction	strong beliefs and views. What you know and feel to be right.	Sewa	In Hi formi	induism and Sikhism, is a selfless service that is pe ng it. Such services can be performed to benefit o	rtormed withou ther human beir	it any expectation of result or award for per- ngs or society			
Discrimination The act of treating oth-		Reincarnation	n the re	ebirth of a soul in another body.					
	ers differently because	Enlightenmen	t the st	the state of having knowledge or understanding					
	of their race, religion, gender, age or disability.	Atman	In Hir self.	In Hinduism, the spiritual life principle of the universe, especially when regarded as immanent in the individual's real self.					
Peaceful         Protesting for any given           Protest         cause without resorting		Nirvana	(in Bu leased	(in Buddhism) a transcendent state in which there is neither suffering, desire, nor sense ot selt, and the subject is leased from the effects of karma and the cycle of death and rebirth. It represents the final goal of Buddhism.					
Parables	a simple story used to	Guru Granth hib	Sa- The s	acred text of Sikhism, considered by Sikhs as the o humankind	eleventh and fi	nal guru and as the repository of God's revela-			
	illustrate a moral or spir-	Guru Nanak	India	n religious leader who founded Sikhism					
	Tesus in the Gospels	Gurus	an inf	luential teacher					
Humanist	Humanists stand for the	Abrahamic religions—Christianity, Judaism and Islam							
	building of a more hu- mane, just, compassion-	Abrahamic religions	AbrahamicIslam, Christianity and Judaism are the three main Abrahamic religions because Abraham – or Ibrahim – them all. They consider him an important prophet or father figure.						
	ate, and democratic soci- ety using a pragmatic ethics based on human	Quran	Quran the Islamic sacred book, believed to be the word of God as dictated to Muhammad by the archangel Gabriel and wri down in Arabic.						
	reason, experience, and	d Bible the Christian scriptures, consisting of the Old and New Testaments							
	reliable knowledge-an ethics that judges the	Tanakh	The J teuch	The Jewish Bible is known in Hebrew as the Tanakh, an acronym of the three sets of books which comprise it: the Penta- teuch (Torah), the Prophets (Nevi'im) and the Writings (Ketuvim).					
	consequences of human actions by the well-being of all life on Earth	Good Samari <sup>.</sup>	tan The p clothi the m	The parable of the Good Samaritan is told by Jesus in the Gospel of Luke. It is about a traveler who is stripped of clothing, beaten, and left half dead alongside the road. First a Jewish priest and then a Levite comes by, but both avoid the man. Finally, a Samaritan happens upon the traveler.					
Human right	ts a right which is believed								
	to belong to every per-	Parables	Tesus in the Gospels.						
		Gospels	the t	eaching or revelation of Christ.					
			•	Peoople					
Mahatma Ghandi A Hindu Indian lawyer, anti-coloni and political ethicist who employer resistance to lead the successful India's independence from British later inspire movements for civil r freedom across the world		al nationalist d nonviolent campaign for n rule, and to rights and	Malala Yousefzai	a Pakistani activist for female education and a Nobel Peace Prize laureate.	Martin Luther King Jnr	an American Baptist minister and activist who became the most visible spokesman and leader in the American civil rights movement			
The Dalai <b>the head monk of Tibetan Buddl</b> Lama ditionally has been responsible for ing of Tibet, until the Chinese gov control in 1959.		hism and tra- r the govern- /ernment took	Greta Tunberg	a Swedish environmental activist who is known for challenging world leaders to take immediate action for climate change mitigation.	Oscar Romero	A Salvadoran Roman Catholic archbishop who was a vocal critic of the violent activities of government armed forces, right-wing groups who spoke up for poor communities in El Salva- dor during a period of terrible violence			

### French

# **Family: Core Vocabulary**



Key Verbs/Phrases		
Dans ma famille il y	In my family there are	
a personnes	people	
J'habite avec	l live with	
Je suis	l am	
le ne suis pas	l am not	
Je m'appelle	I'm called	
II/Elle s'appelle	He/She is called	
II/Elle est	He/She is	
II/Elle n'est pas	He/She isn't	
J'ai	I have	
II/Elle a	He/She has	
Je n'ai pas de	I don't have	
II/Elle n'a pas de	He/She doesn't have	
dans ma maison	in my house	
llya	There is/are	
ll n'y a pas de	There isn't/aren't	
on a	We have	
on'a pas de	We don't have	
on est	We are	
on n'est pas	We aren't	
lls/Elles ont	They have	
lls/Elles n'ont pas de	They haven't	
lls/ Elles sont	They are not	
lls/Elles ne sont pas	They haven't	

Physical Appearance		
bleu(s)	blue	
brun(s)/marron	brown	
vert(s)	green	
es cheveux	hair	
courts	short	
ongs	long	
mi-longs	mid length	
noir(s)	black	
roux	red / ginger	
blonds	blonde	
grand/e	tall	
petit/e	short/small	
gros / grosse (f)	fat	
maigre / mince	thin	
de taille moyenne	average sized	
aid	ugly	
beau / belle (f)	good-looking	
es yeux	eyes	
raides	straight	
frisés	curly	

Colours		
aune	yellow	
oleu	blue	
olanc	white	
gris	grey	
orun/marron	brown	
orange	orange	
noir	black	
ouge	red	
ose	pink	
vert	green	
violet	purple	

Animals/Pet <u>s</u>		
un cheval	a horse	
un cochon d'Inde	a guinea pig	
un lapin	a rabbit	
un chat	a cat	
un hamster	a hamster	
un animal	a pet	
un oiseau	a bird	
un chien	a dog	
un poisson	a fish	
une souris	a mouse	
un serpent	a snake	
une tortue	a tortoise	

Personality/Character *		
méchant	nasty	
ennuyeux/barbant	boring	
sportif	sporty	
marrant/drôle	funny	
bavard	talkative	
intelligent	intelligent	
paresseux	lazy	
sympa/gentil	kind / nice	
timide	shy	
curieux	curious	
branché	trendy	
poli	polite	
amusant	fun	

Family	members
ma grandmère	my grandmother
mon grandpère	my grandad
ma soeur	my sister
mon frère	my brother
ma mère	my mum
mon père	my dad
ma cousine	my (female) cousin
mon cousin	my (male) cousin
ma tante	my aunt
mon oncle	my uncle
mon ami	my friend
mon meilleur ami	my best friend
mes parents	my parents
mes amis	my friends

### French

### **School: Core Vocabulary**



Opinions	
j'aime	l like
j'adore	l love
je préfère	l prefer
je n'aime pas	I don't like
je déteste	l hate
ma matière préférée est	my favourite subject is

School subjects		
lundi j'ai	on Monday I have	
j'étudie	l study	
je fais	l do	
le français	French	
le dessin	Art	
le sport	sport	
l'anglais	English	
la musique	Music	
la géographie	Geography	
l'informatique	IT	
l'histoire	History	
les maths	Maths	
les sciences	Science	
le théâtre	Drama	
les arts plastiques	Art	

Teachers	
Monsieur	Mr
Mademoiselle	Miss
Madame	Mrs
mon prof de maths	My maths teacher
s'appelle	is called

Adjectives	
génial	great
amusant(e)	fun
intéressant(e)	interesting
ennuy <u>eux</u> / - <u>euse</u>	boring
nul(le)	rubbish
facile	easy
difficile	difficult
antastique	fantastic
chouette	great
sympa	kind
sévère	strict
bavard(e)	talkative
compréhensif /-ive (f)	understanding

Time		
à (huit) heures	at (eight) o'clock	
et demie	half past	
et quart	quarter past	
moins le quart	quarter to	
le matin	morning	
l'après-midi	afternoon	
le soir	evening	
je commence	l start	
je finis	I finish	
je vais	l go	
je joue	I play	
je mange	l eat	
je bois	I drink	
on nous donne	we get given	

Describing a school	
mon collège	my school
s'appelle	is called
est	is
grand	big
petit	small
vieux	old
moderne	modern

School Facilities	
il y a	there is
il n'y a pas de	there isn't
une cantine	a canteen
un terrain de foot	a football pitch
des labos	labs
une piscine	a swimming pool
une cour	a yard/playground
une bibliothèque	a library

Key school words		
un cours	a lesson	
le déjeuner	lunch	
la récréation	break	
l'emploi du temps	timetable	
les devoirs	homework	

# Spanish

# **Family: Core Vocabulary**



Key Verbs / Phrases		
En mi familia, hay	In my family, there are	
personas	people	
First	person	
me llamo	I am called	
soy	l am	
no soy	l am not	
tengo	I have	
no tengo	I don't have	
llevo	l wear	
Vivo con	I live with	
Thirc	person	
se llama	he/she/it is called	
es	he/she/it is	
no es	he/she/it is not	
tiene	he/she it has	
no tiene	he/she it doesn't have	
lleva	he/she wears	
Third person plural		
se llaman	they are called	
son	they are	
tienen	they have	

Physical appearance - adjectives	
alto/a	tall
bajo/a	short
bonito/a	pretty
delgado/a	thin
gordo/a	fat
feo/a	ugly
guapo/a	good-looking
pequeño/a	small

Physical appearance - hair and eyes		
los ojos	eyes	
azules	blue	
marrones	brown	
verdes	green	
el pelo	hair	
corto	short	
largo	long	
medio largo	mid length	
castaño	brown	
negro	black	
pelirrojo	red / ginger	
rubio	blonde	
rizado	curly	

Personality/Character		
antipático/a	unpleasant	
aburrido/a	boring	
deportista	sporty	
divertido/a	funny	
hablador(a)	talkative	
inteligente	intelligent	
perezoso/a	lazy	
simpático/a	kind / nice	
tímido/a	shy	
hablador/a	talkative	
amable	kind	
tonto/a	silly	
hablador/a amable tonto/a	talkative kind silly	

Family m	embers
mi abuela	my grandmother
mi abuelo	my grandad
mi hermana	my sister
mi hermano	my brother
mis hermanos	my siblings
mi madre	my mum
mi padre	my dad
mi prima	my (female) cousin
mi primo	my (male) cousin
mi tío / mi tía	my uncle / aunt
mi hemanastro/a	my half-brother/sister
mi padrastro / madrastra	my stepdad/mum
hijo/a único/a	an only child
mi mejor amigo/a	my best friend

Colours	
amarillo	yellow
azul	blue
blanco	white
gris	grey
marrón	brown
naranja	orange
negro	black
rojo	red
rosa	pink
verde	green
violeta	purple

Animales	
una mascota	a pet
una cobaya	a guinea pig
un conejo	a rabbit
un gato	a cat
un hámster	a hamster
un caballo	a horse
un pájaro	a bird
un perro	a dog
ın pez	a fish
un ratón	a mouse
una serpiente	a snake
una tortuga	a tortoise
un zorro	a fox

### Spanish

### **School: Core Vocabulary**



Key Verbs / Opinions	
l like	
l love	
I don't like	
I hate	
l prefer	
it is	
they are	
l study	
there is / are	
it / he / she is called	
it has	

School subjects		
las asignaturas	school subjects	
las ciencias	sciences	
los deportes	sports	
el dibujo	art	
la educación física	P.E.	
el español	spanish	
la geografía	geography	
la historia	history	
el inglés	english	
la informática	ICT	
las matemáticas	maths	
la música	music	
el teatro	drama	
la tecnología	design technology	
Mi asignatura favorita es	My favourite subject is	

	Times
a la una	at 1 O'clock
a las (plural)	at O'clock

Facilities					
unas aulas	classrooms				
una biblioteca	library				
una cantina	canteen				
un campo de fútbol	football pitch				
un gimnasio	gym				
las instalaciones	facilities				
unos laboratorios	labs				
una piscina	swimming pool				
el patio	the playground				

Teachers				
Mi profesor(a) de (+subject)	My teacher of			
Señor	Mr			
Señora	Mrs			
Señorita	Miss			

Key school words				
el comedor	the dining area			
el patio	the playground			
el recreo	break time			
un bocadillo	a sandwich			
un zumo	a juice			
un caramelo	a sweet			

Days of the week				
lunes	Monday			
martes	Tuesday			
miércoles	Wednesday			
jueves	Thursday			
viernes	Friday			
sábado	Saturday			
domingo	Sunday			
los lunes	every Monday			

Key verbs	
ugar	to play
eer	to read
comer	to eat
beber	to drink
empezar	to start
erminar	to finish
vivir	to live

Adjectives				
aburrido/a	boring			
difícil	difficult			
divertido/a	funny			
fácil	easy			
grande	big			
hablador(a)	talkative			
horrible	horribe			
importante	important			
interesante	interesting			
moderno/a	modern			
pequeño/a	small			
severo/a	strict			
simpático/a	kind / nice			
antiguo/a	old			
viejo/a	old			
serio/a	serious/responsible			
listo/a	intelligent/clever			
raro/a	weird			

### **Unit 5: Effects of Exercise**



Key word	Description	
Short term effects of exercise	Physical changes that occur in the body when you begin exercising.	
Long term effects of exercise (physical)	Physical changes that occur in the body after months of following a training programme.	
Heart rate	The number of times the heart beats per minute	
Oxygen	A gas we breathe in and transport to our muscles and organs to use to create energy	
Aerobic	Low intensity exercise than can be done for a long period of time	
Anaerobic	High intensity exercise than can only be done for short time	
Energy production	Using glucose and oxygen to create energy in the muscles and organs in the body	
Respiratory rate	The number of breaths taken in one minute	
Flexibility	The range of movement around a joint	
Hypertrophy	A muscle increasing in size achieved through exercise	
Stroke volume	The amount of blood ejected from the heart (left ventricle) per beat	
Resting heart rate	The amount of times the heart heats per minute at rest (after lying down for 5 mins)	
Efficient	Performing without wasting energy	
Fitness	Being physically fit and healthy. Fitness components include cardio vascular endurance, muscular endurance,	
	speed, flexibility, agility, power and strength	
Coronary heart disease	A disease where there is a narrowing or blockage of the coronary arteries (blood vessels that carry blood and	
	oxygen to the heart).	
Diabetes	A health condition that affects how your body turns food to energy and your blood glucose can be too high.	
Body mass index	Indicator of how healthy your weight is. Calculation: weight (kg) divided by height (m <sup>2</sup> )	
Body composition	The percentages of bone, fat, muscle and water in your body	
Energy balance	The balance of energy (calorie) intake with energy (calorie) expenditure	
Calories	A unit of energy consumed from food or drink.	

Short term effects of exercise	Long term effects of exercise
Increase in heart rate	Increase in heart size (cardiac hypertrophy)
Increase in respiratory rate	Improved fitness
Increase in oxygen delivery to muscles	Increased bone strength
Increase in temperature	Reduced risk of coronary heart disease
Increase in flexibility	Reduced risk of diabetes
	Improved body composition

Key: Black = need to know Blue = extension

# **Unit 6: Wellbeing and Nutrition**



Key word	Description		
Health	A state of complete physical, mental and social well-being, not merely the absence of disease.		
Physical health	Good physical fitness, good nutrition, self care and high quality sleep		
Mental health	Ability to cope with stress and work productively		
Emotional health	How we think and feel, how we cope with life events and acknowledge out emotions. It doesn't mean being happy all the time		
Social health	Ability to form good relationships and adapt to different situations.		
Wellbeing	A state of being comfortable, healthy and happy		
Carbohydrates	Foods which provide energy for high intensity exercise, e.g. potatoes, pasta, bread, rice, bananas		
Proteins	Foods which provide growth and repair for the body/ muscles, e.g. chicken, fish, beans		
Fats	Foods which provide energy for low intensity exercise, protection for organs and insulation, e.g. butter, oil, cheese		
Vitamins	Needed for our bodies to function properly and fight disease. E.g. vitamin C in oranges.		
Energy production	Using glucose and oxygen to create energy (for exercise) in the muscles.		
Hydration	Drinking enough water to maintain body temperature, prevent infections and improve sleep.		
Self esteem	A person's overall sense of self-worth and value.		
Anxiety	A feeling of unease, worry or fear		
Endorphins	Hormones produced in the brain to relieve stress and pain and cause feelings of happiness.		

	Health benefits of exercise							
Phys	sical health	Mer	ital health	Soci	al health	Emo	Emotional health	
•	Improved fitness	•	Improved	•	Make friends	•	Improved happiness /	
•	Increased bone		concentration	•	Improved		mood	
•	density Reduced risk of coronary heart disease and diabetes	•	Improved confidence and self esteem Reduced stress & anxiety	•	communication skills Improved leadership Improved teamwork skills and reciprocity	•	Hormones released (endorphins, dophamine and serotonin)	
•	Weight management	•	Improved sleep	•	Responsibility Reciprocity		,	

# Design Technology

#### **Resistant Materials – Wooden Puzzle**



Natura	al Woods		Manufactured bo	ards		
Softwoods	Hardwoods	MDE	Chinhoard	Plywood	PV	<b>A glue</b> – poly vinyl etate – it works by
					Soa - it ma pa pa pla (tu pla our	aking into the surfaces t only glues <b>porous</b> aterials e.g. wood, per, card, cloth. It <b>asticises</b> as it dries irns into a type of astic – does not wash t of clothes.
		Tiny particles (dust)	Small particles (size of coffee granules) of	Layers of wood glued & compressed		
Have large, broad leaves	Have small <b>needles</b> for leaves	glued & compressed	recycled wood <b>glued</b>	together (laminated	Keywords -	- you must know what
Grow in warmer countries	Can survive in <b>colder</b> countries	together	together	together)	these all mea	them:
<ul> <li>need long, warm</li> <li>summers</li> </ul>	with long winters	Used for furniture,	Used for flat-pack	Used for furniture, and	PVA glue	Chipboard
Have <b>fruit, seeds</b> or <b>nuts</b>	Have <b>cones</b> – they are	cabinets, flooring	furniture, kitchen worksurfaces and	making buildings e.g. floor and roof	Glass paper	MDF
	coniferous – sometimes berries		kitchen cupboards		Deciduous	Plywood
Tall, thin trunks	Wide, short trunks	Scroll saw	Motor housin	g Pillar dril	l Evergreen	Laminated
Grow <b>quickly</b> – 60+ years	Grow <b>slowly</b> – 150+ years			JET	Pillar drill	Glass paper
Produces cheap timber	Produced <b>expensive</b> timber				Drill bit	Dowel
Evergreen – keep their	Deciduous – lose and regrow				Coniferous	Wood finish
leaves all year round – they are survivors	their leaves every year - hibernators		Guard~		Scroll saw	Chuck key
e.g. pine. cedar. spruce.	e.g. oak, birch, beech, teak.		Chuck		Jig	Junior hacksaw
deal, yew, larch, cypress	mahogany, apple, ebony, ash,				Bench hook	Wood stain
	cherry, walnut, tulip	Bench hook	Тар		Belt sander	Specification
	Jigs & Templates			<i>"</i>	Marking out	Isometric
You	draw around a template to get	Jun-		the nillar	Brief	Market research
an hel	exact copy of the original. It ps with <b>accuracy</b> . A <b>jig</b> helps you	The Her			Aluminium oxide paper	Manufactured board

Junior hacksaw

Chuck key - tightens the drill bit in the chuck



drill in the right place every time or sand at a perfect angle every time. It improves accuracy and saves time marking out & measuring.

# Computer Science



### KS3 – Data

**Representation I** 

Computers need to <b>store, process</b> and <b>communicate</b> information.				
Computers use sequences of symbols	to represent information.			
Information in computers must be represented	in a form convenient for processing			
Convert binary to decimal: Instructions	To convert bits to bytes: <b>Divide</b> the number of bits by 8			
Write multipliers over the ×2 ×2 ×2 ×2 bits: 16 8 4 2 1 Start with 1 on the right, × × × × × and double as you go from right to left. For each bit set to 1, 16 8 2 select its corresponding multiplier Add up the selected numbers: the sum is the decimal number.	Because this is how many groups of 8 bits, i.e. bytes, 'fit' in the sequence. bits bits ; *8 bytes To convert bytes to bits: <i>Multiply</i> the number of bytes by 8.			
	Because there are 8 bits in every byte.			

Key term	Definition
ASCII	American Standard Code for Information Interchange – A Character encoding format for text data
Base 10	A numbering system using 10 digits (0 to 9)
Base 2	A numbering system using 2 digits (0 and 1)
Binary digit/bit	The symbols that digital devices to represent information
Byte	A group of eight binary digits/bits
Character	Any number, letter or symbol
kilo-	thousands
mega-	millions
giga-	billions
tera-	trillions
Sequence	
Switch	An electronic device that controls the flow of electricity

# Computer Science



### **Block Based Programming 1**

https://app.edublocks.org/

Key Terms		nttps://app.edublocks.org/					
Algorithm	list of instructions used to carry out a task.	Name and download your	Vntitled Project      Split Blocks      Imports	Code	Python 3 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Save (1) Run >	Select here to run your
Sequence	Running instructions in order	here	Variables     Variables				code
Selection	When your code makes a choice		Lists Coops				
Iteration	When your code does the same thing more than once		Math	· · · · · · · · · · · · · · · · · · ·			
Variable	A name that refers to data being stored by the computer		Tool box	 Block code	 Python co	ode	
Comparison	e.g. ==, >, <, >=, <=, !=	Imports		Variables	Statements	Logie	2
operator		Useful if you need a		Used to create	This is where you go for	Go here for if	
Logic Operators	e.g. AND, OR, NOT	random number or time functions.		variables.	input or output.	statements or need to use co operators.	if you mparison
Count- controlled	When we want to run commands a set number of	Imports		Uariables	. Statements	C Logic	;
Condition-	When we want to run	Loops		Math			
controlled iteration	ontrolled commands until the condition set is no longer being met.		be found	Go here for your mathematical			kc
Debugging	The process of finding an error in your code an taking steps to fix the problem.	while loops).		operators.			

# Computer Science

**Key Terms from Previous Learning** 



#### Block Based Programming 2

#### https://app.edublocks.org/

	_						
Sequence	Running instructions in order	Name and	< Untitled Project  Split Blocks	Code	Python 3	Save (2) Run > Select	
Selection	When your code makes a choice	your	Imports  Variables	ø Start Code Here	1 # Start Code Here 2	nere to run your	
Iteration	When your code does the same thing more than once	here	Statements     Logic	· · · · · · · · · · · · · · · · · · ·		code	
Variable	A name that refers to data being stored by the computer		Lists     Loops     Definitions				
Count- controlled iteration	When we want to run commands a set number of times.		Math     Turt	• • • • • • • • • • • • • • • • • • •			
Debugging	The process of finding an error in your code an taking steps to fix the problem.	   	Tool box	Block code Python code			
Key Terms for Current Learning		Imports		Variables	Statements	Logic	
Decompositi on	Breaking a large problem down into smaller manageable tasks	Useful if you need a random number or time functions.		Used to create variables.	This is where you go for input or output.	Go here for if statements or if you need to use comparison	
Subroutines	A named section of code we can call anytime we want.	Imports		Uariables	. Statements	coberators.	
Condition- controlled iteration	When we want to run commands until the condition set is no longer being met.	Loops		Math	Definitions	Lists	
Lists	An area of storage in our programs that stores multiple pieces of data that can change	Iteration can be found here (for loops and while loops).		Go here for your mathematical operators.	Go here when you want to create subroutines.	Go here when you want to use lists.	
		4 I 🦱					