

Knowledge Organisers 1st Summer Term

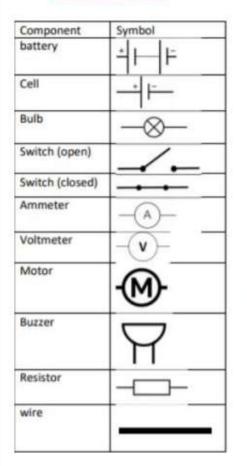
Science History Geography Art **PSHE** French Computing R.E. **P.E. Swimming** Music Class 3 – Year 4

Knowledge Organiser - Light & Electricity- Science- Year 6

Reflection is when light bounces off a surface, changing the direction of a ray of light. All objects reflect light; smooth and shiny surfaces reflect all the rays of light at the same angle, rather than scattering the rays of light like rough or dull surfaces.

How is light reflected?







	I know that light travels in straight lines and we need light to see.
	I understand how we see.
1	I know how shadows are formed and that they have the same shape as the objects that cast them.
	I understand how voltage affects the brightness of a bulb.
	I understand and can investigate variations in how components function.

Key Vocabulary	Definition		
electricity	energy made available by the flow of electric charge through a conductor		
insulator	A substance that does not transmit heat		
conductor	a substance that readily conducts e.g. electricity and heat		
component	A part that can be separated from or attached to a system		
circuit	an electrical device that provides a path for electrical current to flow		
Negative charge	having a surplus of electrons; having a lower electric potential		
Positive charge	having a deficiency of electrons; having a higher electric potential		
voltage	An electrical force that makes electricity move through a wire		
Reflect	Throwback something without absorbing it		
Light Source	An object that gives off light		
Shadow	A shape produced by an object blocking the light source		
transparent	An object that allows light to pass through		
translucent	An object that allows some, but not all light to pass through		
opaque	An object that does not allow light through		



As the light source moves higher in relation to the object, the shadow gets shorter. As the light source moves lower, the shadow gets





2	Series
Advantages	 Easy to use
	 Easy to add more power to the circuit
	 Doesn't over heat easily
	 Components all have same current
Disadvantages	 If one component breaks the whole circuit won't work
	 Increasing number of components
	increases resistance

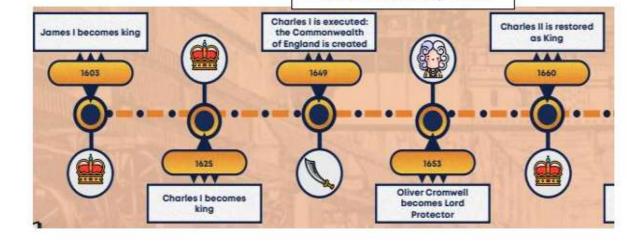
Knowledge Organiser - History - Year 4 - Early Stuarts, Gunpowder and Civil War.

Key Vocabulary:		
Divine right of kings	The belief that kings are chosen by God and therefore should have all the power.	
Plot	A secret plan made by a group of people to do something illegal or harmful.	
The Gunpowder Plot	A plot, led by Robert Catesby, to blow up the Houses of Parliament on the 5 th November.	
Union of the crowns	When King James VI of Scotland became King James I of England, this united the two kingdoms under one crown.	
Monteagle letter	The letter received from Lord Monteagle from Francis Tresham, warning him of the Gunpowder Plot. The letter was given to James I who was able to capture Guy Fawkes.	
Treason	A crime where a person betrays their country. This includes trying to kill their king.	

	Key Knowledge:
Ì	I know the James I believed in the divine right of kings and didn't treat Catholics well.
	I know that James I was unpopular with lots of
	people at the time.
Ik	now that there was a plot to blow up the Houses
of	Parliament, known as the Gunpowder plot, led by
	Robert Catesby
1	know that the plot was discovered when a letter was shown to the king, and Guy Fawkes was
	discovered with 36 barrels of Gunpowder



Houses of Parliament, London



Key people		
Jam <mark>e</mark> s I	James I was the King of England (and Scotland). He was a Protestant and believed in the' divine right of kings'.	
Robert Catesby	He was the leader of the Gunpowder Plot.	
Francis Tresham	He wrote a letter to his friend telling him not to go to parliament.	2
Guy Fawkes	He was a soldier and one of the plotters. He planned to blow up the Houses of Parliament and was caught.	æ

Key neonle

Year 5 - Knowledge Organiser – Geography – New Zealand

Key Vocabulary	Definition	Key Knowledge	N. Contraction of the second sec
Southern Hemisphere	The half of Earth that is south of the Equator.	New Zealand is a country in the Southern Hemisphere made up of two islands	· · · · · · · · · · · · · · · · · · ·
Volcano	A crater or vent through which lava, rock fragments and gases erupt from the Earth's crust.	New Zealand is located on a plate boundary and so has active volcanoes and geysers	Auckland Auckland
Geyser	A hot spring in which water boils, sending a tall column of water and steam into the air	Maori were the first people to live in New Zealand and have their own customs and language.	Touman Seo
Tectonic plate	A massive slab of rock that moves over a liquid mantle	New Zealand has many animals and plants that are only found on this island	A Christoputh
Earthquake	A sudden violent shaking of the ground, typically causing great destruction, as a result of movements within the earth's crust or volcanic action.	The South Pacific has many small islands including Easter Island.	Partie Oos
Predator	An animal that naturally preys or hunts other animals.		B

Wellington	Geyser	All Blacks	Kiwi	Easter Island
Wellington has been the capital city of New Zealand since 1865	Pohutu Geyser, which erupts up to 15 times a day and shoots hot water around 30m skywards.	The New Zealand national rugby team known as the All Blacks	A native flightless bird which is the national symbol of New Zealand	The distance between Easter Island and New Zealand is 7084km,

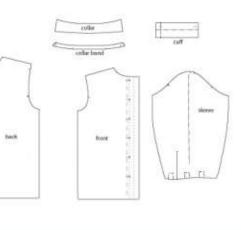
Key Vocabulary		
pattern	a shape drawn to exact shape and size, used to assist in cutting out	
seam	where fabric is joined together	
fabric	cloth produced by weaving or knitting textile fabrics	
specification	describes what a product has to do	
tacking	large running stitches to hold pieces of fabric together	
working drawing	detailed drawing containing the information needed to make a product but is updated as changes are made	
Victorian sampler	a piece of embroidery or cross-stitch to demonstrate needlework	
embroidery	sewing decorative designs onto fabric	
reinforce	to strengthen or support something	
in the second		



Victorian Sampler

Pattern for a shirt





Key Knowledge I know different fabrics have different uses. I can identify a range of stitches. I can create a design using stitches. I can sew a Victorian sampler.





Knowledge Organiser - Design and Accessory- DT- Year 5



Knowledge Organiser – PSHE – Relationships - Year Five

Key Vocabulary		
Self-esteem	A feeling of being happy with your own character and abilities.	
Attributes	To regard a quality or feature as belonging to somebody/something.	
Characteristics	A typical feature or quality that something/somebody has.	
Compromise	An agreement made between two people or groups in which each side gives up some of the things they want so that both sides are happy at the end.	
Pressure	The act of trying to persuade or to force somebody to do something.	
Jealousy	Feeling angry or unhappy because somebody you like or love is showing interest in somebody else.	
Bullying	The use of strength or power to frighten or hurt people. This can be face to face or through the use of technology.	
Safety	To feel safe and protected from danger or harm.	



Key Knowledge

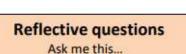
I have an accurate picture of who I am as a person in terms of my characteristics and personal qualities

I understand how it feels to be attracted to someone and what having a boyfriend / girlfriend might mean.

I understand how to stay safe when using technology to communicate with my friends.



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What does friendship mean to you?

How do you know who you are talking to online?

What are good ways I can keep myself safe when using technology?

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Knowledge Organiser Year 6 French Unit 11: Le sport

Key Language	English
le football	football
le tennis	tennis
le vélo	cycling
le roller	roller skating
la natation	swimming
l'équitation	horse riding
la danse	dance
la gymnastique	gymnastics
Tu aimes quels sports?	What sports do you like?
Tu préfères quels sports?	What sports do you prefer?
J'aime/j'adore (le ski)	I like/I love (skiing)
Je n'aime pas/Je déteste	I don't like/I hate
Je préfère (la danse)	I prefer dance
mais/et	but/and
Pourquoi?	Why?
parce que	because
C'est amusant	it's fun
C'est facile	lt's easy
C'est passionnant	it's amazing
C'est ennuyeux	It's boring
c'est cher	It's expensive
c'est difficile	It's difficult
c'est fatigant	It's tiring



Pourquoi?

Why?

Knowledge Organiser- Data & Information - Introduction to Spreadsheets - Year 6

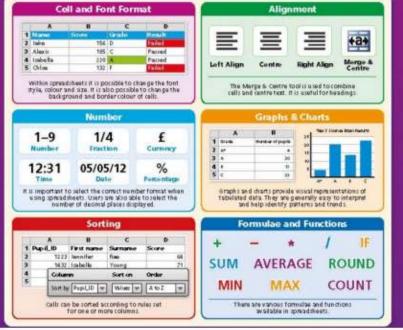
Key Vocabulary	Definition			
Cell:	the building blocks of a spreadsheet. Each cell holds one piece of data.			
Row:	a horizontal collection of cells. Each row is identified by a number on the left side of the row.			
Column	a vertical collection of cells. Each column is identified by a letter at the top of the column			
Spreadsheet	eet the entire collection of data. Most spreadsheet programs like Exc refer to this as a worksheet or workbook. Google just calls it a spreadsheet.			
Tab	an organizational unit in a spreadsheet. You can think of them sort of like different pages in the spreadsheet.			
Formula	an equation based on multiple cells.			
Function	formulas that are built into your spreadsheet software are called functions.			
Manual Input	user inputted data into a cell. The difference between manually inputted data versus a cell with a computed value will become increasingly clear over this course			
Output	a cell with a value that is calculated based on data in other cells. A function is an example of an output cell.			

Key Knowledge	
To be able to create a data set in a spreadsheet	
To be able to build a data set in a spreadsheet	
To explain that formulas can be used to produce calculated	d data
To apply formulas to data, including duplicating	
To create a spreadsheet to plan an event	

SPREADSHEET FEATURES

A spreadsheet is a computer model that performs calculations and displays data.

A row is a horizontal		C	location of a cel	it or group of cells.		Formulao
block of cells. Each row is labelled numerically	16	Example Spreadsheet				Formulae are not displayed on the
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Each cell in a spreadsheet		Candidate no.	Name	Score	Result	
has a unique cell	12	1082	Jennifer	25	PASS	Columns
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	5	1324	Sam	18	FAIL	The highlighted colum
	6	1453	Paul	29	PASS	is labelled C



R.E. Year 6 Summer 2 Knowledge Organiser Enquiry: What is the best way for a Sikh to show commitment to God?

Key vocabulary	Definition		
Sikh	A person who follows the religion of Sikhism		
Commitment	To promise to be loyal to someone or something		
The 5 Ks Khalsa Sikhs wear five symbols – called the f Panj Kakka - to show their devotion to Sikhism.Kangha- comb, kirpan- sword, kara bracelet, kacheri- shorts and Kesh – uncut h			
Amrit Ceremony	The Amrit initiation ceremony involves the drinking of Amrit (sugar water stirred with a dagger) in the presence of 5 Khalsa Sikhs as well as the Guru Granth Sahib		
Guru Granth Sahib	Sikh Holy Book		
Gurdwara	Sikh worship place		
Sewa	Helping others – could be donations of money, good or time		

Key Knowledge

I understand the term commitment.

I know Sikh's dress in a way to show commitment to God

I know the 3 Golden rules of Sikhism and can explain what Seva means.

I can explain why it is important to Sikhs to show their commitment to God and can describe different ways they choose to do this.

I can give my opinion on what I think Sikhs should do to show commitment to God and explain why

I know that religions can influence how people live

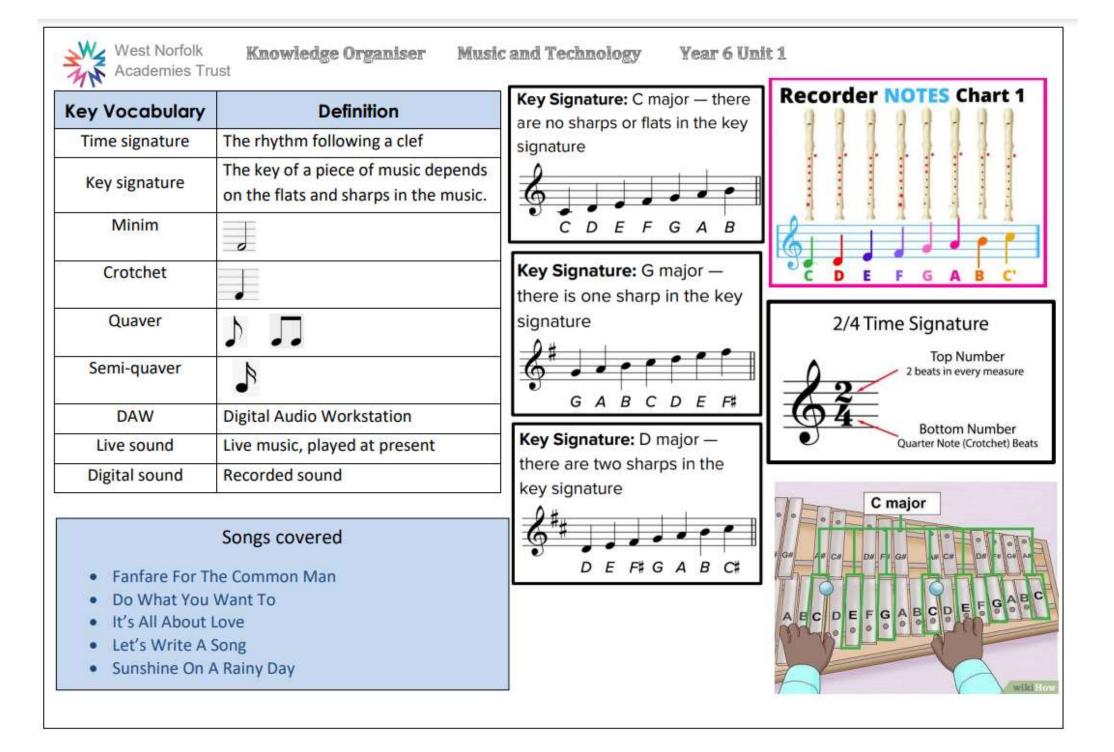




Knowledge Organiser – PE – Swimming – Year 6



	3		Skills
Key Vocabulary	Definition	Breaststroke	-
Streamline	To ensure that the body travels through the water in as straight a line as possible so as not to create any more turbulence than necessary.	breathing	- of stope
Synchronised	To do something together/at the same time.	Streamline	
Retrieve	To collect an object from the bottom of the swimming pool.		
		H.E.L.P	2
	Skill development	position	
Swim competently	, confidently and proficiently over a distance of at least 25m.		
Use a range of stro breaststroke.	okes effectively (for example, front crawl, backstroke and		SA
Perform safe self-	rescue in different water-based situations.	1	2

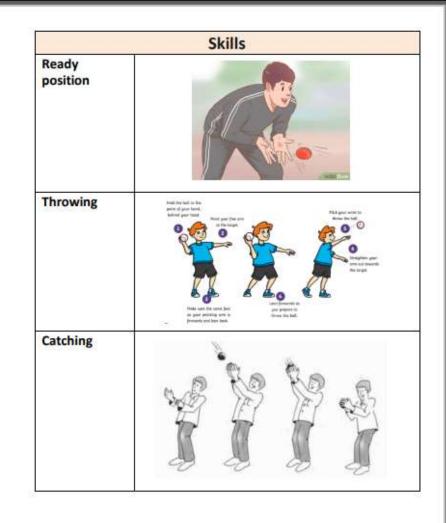




Knowledge Organiser – PE – Rounders – Year 5

Key Vocabulary	Definition	
Abide	Act in accordance with the rules.	
Backing up	To move position to support.	
Collaborative	To work jointly with others.	
Umpire	A person who makes sure the rules are followed.	
Short barrier	r Creating a barrier with hands in front of feet to stop a travelling on the ground at slow speed.	
Tactic	A plan or strategy.	
Track	To move your body to get in line with a ball that is coming towards you.	
Stance	The body position you have taken.	

Key Skills	Development		
Attacking	Aim to score as many points as possible by getting your players around the bases. When you strike the ball, try and aim for gaps in the field to score more points. When the ball is good, try and hit it high and far to avoid fielding players.		
Defending	Field the ball quickly and accurately to make sure they opponents do not get many points. Work as a team to run opponents out.		



OUTS

A player will be called out if they are:

running to
They run inside the bases

Cought out: fielders catches a botted ball
 Run out: their teammate runs to the same post as them
 Stumped out: fielder stumps the post that the batter is



HOW TO SCORE

- · One rounder ball is hit and live batter runs to 4th
- A half rounder ball is hit and live batter gets to 2nd
 A half rounder ball is not hit and live batter gets to
- A holf rounder + ball is not hit and live batter get 4th
- · A holf rounder = two consecutive no-balls

Tactics will help your team to achieve an outcome e.g. when fielding spread out to make so that you have a better chance of catching a batter out or stopping them from scoring.