

Knowledge Organisers 1st Summer Term

Science

History

Geography

Art

PSHE

French

Computing

R.E.

P.E.

Swimming

Music

Class 3 – Year 5 & 6

_Knowledge Organiser - Light & Electricity- Science- Year 6

How is light reflected?

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.



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

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





	Series	I
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- World War One - History - Year 6

Key vocabulary	Definition		
Imperialism	When a country increases its power and influence by colonising (taking over) another country.		
Alliance	A union or relationship for them both	ormed between countries/ organisations, to benefit	
Mechanised warfare	The use of armoured fight referred to as 'armoured	nting vehicles in modern warfare. Sometimes ' or 'tank' warfare.	
Chemical warfare	The use of the toxic chemicals to kill or injure enemies. In WWI, Chlorine, Phosgene and Mustard Gas were used.		
Trench warfare	Where opposite sides of the war fight from trenches dug into the ground, facing each other		
No Man's Land	The land between the trenches of opposing armies		
Home Front	The Home Front refers to life in Britain during WWI		
Conscription	A law that says that if you are able to fight in the war, you have to. During WWI, by 1916, all men aged 18-41 had to go to war and fight for their country.		
Armistice	An agreement made to stop fighting a war, also referred to as a 'truce'		
	The war	was fought between:	
The Triple Alli	ance	Germany, Austria-Hungary and their allies	
The Triple Entente France, Britain and Russia		France, Britain and Russia	

28th June 1914, Archduke Franz Ferdinand is assassinated

8th August 1914, the Defence of the Realm Act is passed 1916, British Summer Time is introduced

28th June 1919, Germany signed the Treaty of Versailles

4th August 1914, Britain declares war on Germany

1st July-18th November 1916, the Battle of the Somme took place

11th November 1918, Germany signed an armistice and the war ended

Key Knowledge I understand the causes of World War One. I understand that World War One was fought on land, in the air and at sea. I know what life was like for soldiers on the Western Front in the trenches. I understand what life was like on the Home Front, I know it was

a 'total' war and that everyone was involved in the war effort. I understand the consequences of World War One and that the peace treaty was the Treaty of Versailles.

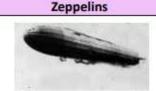
Key People:

Archduke Franz Ferdinand (heir to the throne of Austria-Hungary who was assassinated)



Kaiser Wilhem II (The last German Emperor)





David Lloyd George (PM 1916-1922)



Herbert Henry Asquith (PM 1908-1916)



Submarine



Year 5 - Knowledge Organiser - Geography - New Zealand

Key Vocabulary	Definition	
Southern Hemisphere	The half of Earth that is south of the Equator.	
Volcano	A crater or vent through which lava, rock fragments and gases erupt from the Earth's crust.	
Geyser	A hot spring in which water boils, sending a tall column of water and steam into the air	
Tectonic plate	A massive slab of rock that moves over a liquid mantle	
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.	
Predator	An animal that naturally preys or hunts other animals.	

Key Knowledge		
New Zealand is a country in the Southern Hemisphere made up of two islands		
New Zealand is located on a plate boundary and so has active volcanoes and geysers		
Maori were the first people to live in New Zealand and have their own customs and language.		
New Zealand has many animals and plants that are only found on this island		
The South Pacific has many small islands including Easter Island.		



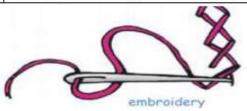
Wellington	Geyser	All Blacks	Kiwi	Easter Island
				Milling
Wellington has been the capital city of New Zealand since 1865	Pohutu Geyser, which erupts up to 15 times a day and shoots hot water around 30m skywards.	The New Zealand national rugby team known as the All Blacks	A native flightless bird which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

Knowledge Organiser - Design and Accessory- DT- Year 5

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	

Key Knowledge		
I know diff	erent fabrics have different uses.	
I can	identify a range of stitches.	
I can c	reate a design using stitches.	
I car	n sew a Victorian sampler.	

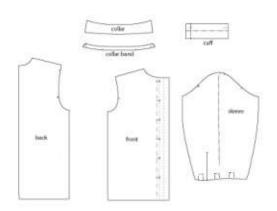




Victorian Sampler



Pattern for a shirt









4 COULTY DUCKTION







Knowledge Organiser - PSHE - Relationships - Year Five

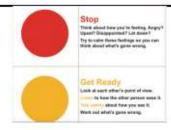
Key Vocabulary		
Self-esteem	A feeling of being happy with your own character and abilities.	
Attributes	To regard a quality or feature as belonging to somebody/something.	
Characteristics	A typical feature or quality that something/somebody has.	
Compromise	An agreement made between two people or groups 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.









Reflective questions Ask me this...

What does friendship mean to you?

How do you know who you are talking to online?

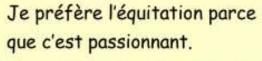
What are good ways I can keep myself safe when using technology?

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	It'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



J'adore la gymnastique parce que c'est facile.





KEY QUESTIONS

Tu aimes quels sports? What sports do you like?

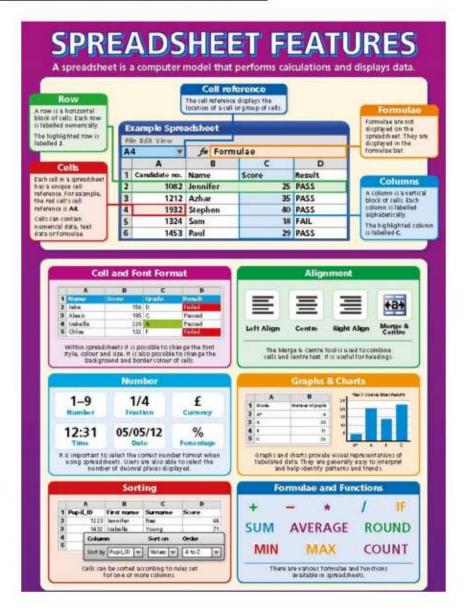
Qu'est-ce que tu préfères? What do you prefer?

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	the entire collection of data. Most spreadsheet programs like Excel 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	ata
To apply formulas to data, including duplicating	
To create a spreadsheet to plan an event	



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

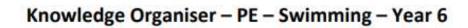
Key vocabulary	Definition
Sikh	A person who follows the religion of Sikhism
Commitment	To promise to be loyal to someone or something
The 5 Ks	Khalsa Sikhs wear five symbols – called the five Ks, or Panj Kakka - to show their devotion to Sikhism.Kangha- comb, kirpan- sword, kara – bracelet, kacheri- shorts and Kesh – uncut hair
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 God and can describe different ways they choose to do this.	t to
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	











Key Vocabulary	Definition
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.
Synchronised	To do something together/at the same time.
Retrieve	To collect an object from the bottom of the swimming pool.

Skill development	
Swim competently	y, confidently and proficiently over a distance of at least 25m.
Use a range of str breaststroke.	okes effectively (for example, front crawl, backstroke and
Perform safe self-	rescue in different water-based situations.

Skills	
Breaststroke breathing	
Streamline	
H.E.L.P position	



Knowledge Organiser

Music and Technology

Year 6 Unit 1

Key Vocabulary	Definition	
Time signature	The rhythm following a clef	
Key signature	The key of a piece of music depends on the flats and sharps in the music.	
Minim		
Crotchet		
Quaver) J	
Semi-quaver	A	
DAW	Digital Audio Workstation	
Live sound	Live music, played at present	
Digital sound	Recorded sound	

Songs covered

- Fanfare For The Common Man
- Do What You Want To
- · It's All About Love
- Let's Write A Song
- Sunshine On A Rainy Day

Key Signature: C major — there are no sharps or flats in the key signature

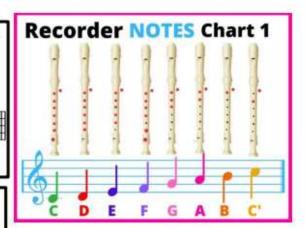


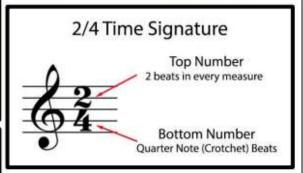
Key Signature: G major there is one sharp in the key signature

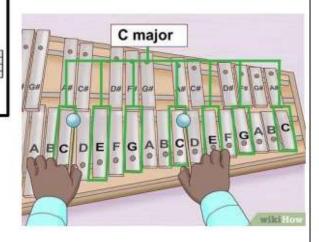


Key Signature: D major — there are two sharps in the key signature







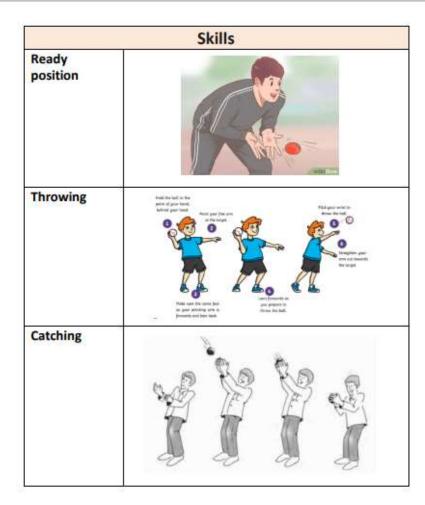




Knowledge Organiser - PE - Rounders - Year 5

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	Creating a barrier with hands in front of feet to stop a ball 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:

- Cought out: fielders catches a batted ball
 Run out: their teammate runs to the same post as them
 Stumped out: fielder stumps the post that the batter is running to
 They run inside the bases.

HOW TO SCORE

- . One rounder a ball is hit and live botter runs to 4th
- A half rounder ball is fit and live batter gets to 2nd
- . A half rounder ball is not hit and live batter gets to
- . A half 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.