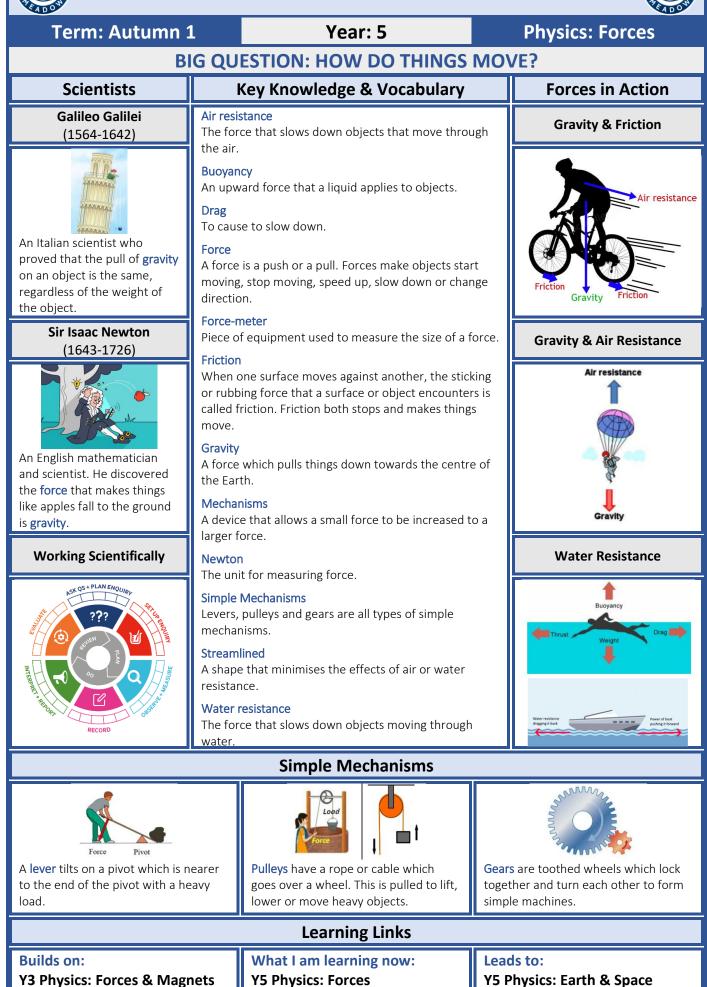


Science Knowledge Organiser





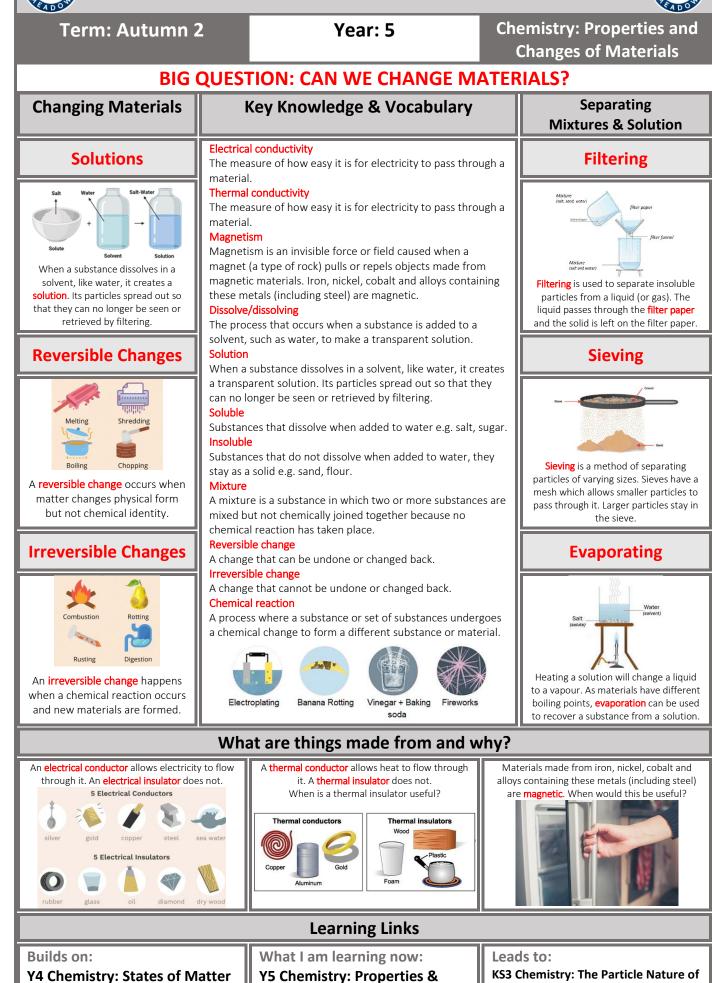


Science Knowledge Organiser



Matter, Chemical Reactions & the

Periodic Table



Changes of Materials





Science Knowledge Organiser						
Term: Spring 1		Yea	r: 5	Phy	sics: Earth and Space	
BIG QUESTION: SUN, EARTH AND MOON - WHAT IS MOVING?						
The Sun, Earth and Moon	k	Key Knowledge	& Vocabulary	,	The Sun, Earth and Moon	
What shape are the Earth, Sun and Moon?		ginary line through the	e middle of somethir	ng that	What causes day and night?	
The Sun, Earth and Moon are spherical because gravity pulls all their particles towards their own centre.	Moon A natura Orbit To move object. Planet A large a star an Rotate To spin	rotates around. al satellite which orbi e in a regular, repeati object, spherical or n nd does not emit its c or turn quickly aroun	nd an	The Earth rotates (spins) on its axis, anti-clockwise, making a full rotation every 24 hours.		
How does the Earth move?	Satellite Any obj	ect or body in space t	hat orbits something	g else.	How does the Moon move?	
The Sun is at the centre of the solar system. The Earth, and the other planets, orbit around the Sun.	Star A giant makes i Sun A huge system Univers All of sp	I 3D shape, like a ball. ball of gas held toget ts own heat and light star that Earth and ot orbit around. e bace and everything ir blar System	ner by its own gravit energy. her planets in or sola		The Moon orbits the Earth in an anticlockwise direction, whilst spinning on its axis.	
Gravity					Does the shape of the Moon change?	
Unsupported objects fall towards Earth because of the force of gravity acting between the Earth and the falling object.	My Ve	we ^{cuth} le tothe web s	a ^{led} ge ^{ur} J ^{re}	ming.	As the Moon rotates around the Earth, the Sun lights up different parts of it, making it appear to be different shapes.	
Scientists						
	structure developed how the U (the Big B	dawking studied the of the Universe. He d theories about Jniverse started ang), what black and how they	Space scientist Ma loved looking at th was a child, growin determination to so dreams come true projects to make to which are used to the Universe.	ne night s ng up in l succeed h e and she t elescope	sky since she London. Her helped her has led es and satellites	
Learning Links						

Learning Links				
Builds on:	What I am learning now:	Leads to:		
Y3 Physics: Light	Y5 Physics: Earth and Space	Y6 Physics: Light		



Science Knowledge Organiser



Term: Summer 2	Year: 5	Biology: Living Things and their Habitats				
BIG QUESTION: DO ALL LIFE CYCLES LOOK THE SAME?						
Plants	Key Knowledge & Vocabulary	Animals				
Flowering Plants	Embryo An unborn animal or human in the very early stages development.	s of Mammals				
STANEN FILAMENT STIGMA FILAMENT OF STILE OVARY	Fertilise Male and female cells meet to develop an embryo of seed. Germination If a seed germinates or if it is germinated, it starts to grow into a new plant.	Aduit Dog Life Puppy				
Reproduction with seeds		Insects and Amphibians				
Male and female cells or parents make one offspring,	Gestation The length of a pregnancy. Life Cycle The series of changes that take place throughout the life of a living thing, from the beginning of its life un- its death. Metamorphosis A process by which animals undergo an abrupt and obvious change in the structure of their body and the behaviour.	heir Most insects and amphibians go				
not identical to the parent. Reproduction without	Pollination The transfer of pollen to a stigma to allow fertilisati Reproduction	on. Birds				
Seeds	When an animal or plant produces one or more individuals similar to itself. Stages of Human Development Example of the second se	Birds lay eggs. A chick will grow inside an egg that has been fertilised.				
Jane Goodall (born 1934)						
	Dr Jane Goodall is a primatologist whose ground-breaking chimpanzee studies in Tanzania, East Africa changed the way we think about wildlife. During her 60-year study, she discovered chimps express emotions (such as sadness, anger and joy), use tools and eat meat.					

Learning Links

Builds on:
Y4 Biology: Living Things and their
Habitats

What I am learning now: Y5 Biology: Living Things and their Habitats

Leads to: Y6 Biology: Evolution and Inheritance