

	Y1	Y2	Y3	Y4	Y5	Y6										
1	Seasonal Change (Physics) Seasons and Weather What are the four seasons? What's the weather like in Autumn, Winter, Spring and Summer? Day to Night Why does day become night?	Materials (Chemistry) Materials What are materials used for? Categorise and compare wood, metal, plastic and glass What are materials used for? Categorise and compare ceramics, rock, paper and card, and fabric Changes What happens when we squash, bend, twist or stretch a material? Purpose What's the right material for the job?	Rocks (Chemistry) Types How are rocks formed? What types of rocks are there? Change Can rocks change? How can we test a rock to see if it is limestone or chalk? Soil Is soil just dirt? What makes soil? Fossils How are fossils formed?	Living Things and Their Habitats (Biology) Living Things What are the characteristics of living things? Vertebrates and invertebrates What animals are vertebrates? What animals are invertebrates? Plants What groups are plants classified in? Classification Keys What is classification? How do I use a key? Environmental Changes What happens if the environment in a habitat changes?	Materials and Their Properties of Change (Chemistry) Properties, Mixtures and Solutions What properties do materials have? How do we use them? What is a mixture? What is a solution? (solubility) Separation of Materials How can we separate materials from a mixture? (Sieving and filtration) How can we separate materials from a solution? (Evaporation) Reversible and Irreversible Change What changes are reversible? What changes are irreversible?	Electricity (Physics) Do It What is electricity? How does it work? How do we build and represent a series circuit? What are components in a series circuit? Test It How does the number of cells and voltage effect components in a circuit? Diagnose It What are the effects and consequences of changing circuit components and batteries?										
2							Living Things and Their Habitat (Biology) Characteristics of Living Things What is alive and what is not? What do all living things have in common? Location of Living Things Where do plants and animals live? What plants and animals live in our local environment? How Living Things are Connected? What are food chains? How are they connected? Why do plants and animals need each other?	Forces and Magnets (Physics) Contact Force and Friction What are a contact forces? How do surfaces affect the motion of an object? How does friction affect moving objects? Non-Contact Force What is a non-contact force? How is this different to a contact force? Magnetic Force How do magnets attract and repel? Which materials are magnetic?	States of Matter (Chemistry) What is a matter? What does 'state' mean? Melting, Evaporating and Condensing How do materials change there state of matter?	Living Things and Their Habitats (Biology) Life Cycles What's the difference between a mammal and amphibian? What is the difference between an insect and a bird? What is similar and what is different between the life cycle of a mammal, amphibian, insect or bird? Inspirational Scientists Who was Maria Merion and what did she do? Reproduction How do living things reproduce? Plants and animals – Wha's the life process of reproduction?	Living Things and Their Habitats (Biology) Pioneering Scientist Who was the scientist Carl Linnaeus and what did he do? Classification How do we classify vertebrates? How do we classify invertebrates we know? How do we classify invertebrates we don't know? How do we classify invertebrates we don't know? Apply What animals can I classify? What animals and plants exist in my local environment?					
3												Animals inc Humans (Biology) Animals What is an animal? What types of animals are there? What is similar and what is different? Eating What does food tell us about an animal? Senses What makes me an animal/ What senses do I have?	Plants (Biology) Flowering Plants What are the parts of a flowering plant? What do they do?	Animals Including Humans (Biology) Teeth and Eating What teeth do humans have? What do they do?	Space and Earth (Physics) Position, Relationship/ Movement of the Planets / Spherical Bodies	Light (Physics) Properties of Light How does light travel? What colour is light made of? Reflection How does light help us to see objects? Which surfaces make the best reflectors? Colour Why do we see objects as particular colour? Refraction What happens to the appearance of objects when placed in water?
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		<p>How do animals change as they mature?</p> <p>Air, Water and Food</p> <p>How do we change as we mature?</p> <p>What do all animals need to stay alive?</p> <p>Health and Food</p> <p>Keeping healthy:</p> <p>Why do we exercise?</p> <p>Why do we eat different types of food?</p>	<p>Food and Survival</p> <p>Do all plants need the same things to thrive and grow?</p> <p>How do leaves make food for the plant?</p> <p>How does water move through a plant</p> <p>Flower Function</p> <p>What do flowers do?</p> <p>What is pollination?</p>	<p>How does our mouth and teeth help digestion?</p> <p>What is the process?</p> <p>The Digestive System</p> <p>What are the parts of the digestive system? What do they do?</p> <p>How does digestion work? What's the process?</p> <p>Food Chains</p> <p>What are food chains? How do they work?</p> <p>How do I construct and interpret a food chain?</p> <p>Summary</p> <p>How are teeth, digestion and food chains connected?</p>	<p>What are the planets in our solar system? (Planet comparison)</p> <p>How does the view of the Moon change in a solar month? (Moon phases, moon diaries)</p> <p>The Effect of the Earth's Rotation, Tilt and Orbit Has on Day, Nights and Seasons.</p> <p>Why does the rotation of the Earth result in day and night?</p> <p>Why is the Earth's tilt (axis) responsible for the seasons?</p>	
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4	<p>Everyday</p>					
5	<p>Materials (Chemistry)</p> <p>Materials</p> <p>What are materials?</p> <p>What are things made of in school?</p> <p>Properties</p> <p>How can I describe materials?</p> <p>Which materials are waterproof and which are not?</p> <p>Which materials are transparent and which are opaque?</p> <p>Use What You Know</p>	<p>Plants (Biology)</p> <p>Growing From A Seed</p> <p>How do seeds germinate and what happens?</p> <p>Growing From a Bulb</p> <p>What happens when a bulb sprouts?</p> <p>Healthy Plants</p> <p>What do plants need to thrive and be healthy?</p> <p>What can happen if plants don't get the things they need?</p> <p>What do I notice about plants around the school?</p> <p>How are they healthy?</p> <p>How are they unhealthy?</p> <p>Show What You Know</p> <p>How do seeds and bulbs grow?</p> <p>What do plants need to be healthy?</p>	<p>Electricity (Physics)</p> <p>Sources of Electricity</p> <p>What appliances use electricity?</p> <p>What sort of power makes them work?</p> <p>Components</p> <p>What are the components in a simple series circuit?</p> <p>Apply What You Know</p> <p>What are the effects of changing circuit components and batteries?</p>	<p>Forces (Physics)</p> <p>Non-Contact and Contact Forces</p> <p>Remember gravity</p> <p>When is friction helpful and when is it not?</p> <p>Resistance</p> <p>What is the effect of air resistance?</p> <p>Inspirational Scientist</p> <p>Who was Galileo Galilei?</p> <p>Resistance</p> <p>What's the effect of water resistance?</p> <p>Levers, Pulleys and Gears</p> <p>How do levers help us?</p> <p>How do pulleys and gears help us?</p>	<p>Animals Including Humans (Biology)</p> <p>Blood and Blood Vessels</p> <p>What is blood made of and why do we need it?</p> <p>Why do our bodies need nutrients and how are they transported?</p> <p>What is our circulatory system?</p> <p>The Functions of the Heart</p> <p>What is our heart like inside? How does it work?</p> <p>Who influenced what we know about our circulatory System?</p> <p>The Effect of Exercise, Drugs and Lifestyle</p> <p>What can we do to keep healthy?</p> <p>Present and explain what we know about the circulatory system, nutrients and keeping healthy</p> <p>Digestion and Circulation</p> <p>Remember circulation and digestion: How are these two systems connected?</p> <p>Removal of Waste</p> <p>Where are the kidneys and what do they do?</p> <p>Keeping Healthy</p> <p>How do kidneys keep us healthy?</p>	
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1	<p>What is the best material for the job?</p> <p>Why?</p>		<p>Animals including Human Beings (Biology)</p> <p>Food</p> <p>What effect does the food we eat have?</p> <p>Skeleton</p> <p>Where is my skeleton and what does it do?</p> <p>Muscle</p> <p>Where are my muscles and what do they do?</p>	<p>Sound (Physics)</p> <p>Properties</p> <p>What is sound?</p> <p>Movement</p> <p>How does sound travel?</p> <p>Pitch and Loudness</p> <p>What is the pitch and loudness of sound?</p>		
2						
3	<p>Animals inc Humans (Biology)</p>			<p>Living Things (Revisit) (Biology)</p>		
4	<p>Revisit and name it</p> <p>What features do animals have?</p> <p>Describe It</p> <p>What are the features of the animal group?</p> <p>Sort It</p> <p>What do you notice is similar and what is different?</p>	<p>Materials (Rev) (Chemistry)</p>			<p>Living Things (Rev1) (Biology)</p>	
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1	<p>Plants (Rev) (Biology)</p>		<p>Light (Physics)</p> <p>Seeing</p>			<p>Water Transportation (Biology)</p>
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3	<p>Remember it and Elaborate it</p>					

4	Animals inc Human (Rev) (Biology) Remember it and Elaborate it	Living Things and their Habitats (Rev) (Biology) Explain It Summarise It	Do we need light to seed things? Shadows How are shadows formed? Changing Variables What happens to the size of a shadow when the object moves closer to, or away from, the light source?		Animals including Humans (Biology) Life What is the human timeline? Growth How do we change into adults? Compare How do human and animal lifespans compare?	SATS Week
5		Plants and Animals (Rev) (Biology) Explain It Summarise It	Rocks (Rev) (Chemistry) Types How are rocks formed and what types are they? Change Remember: how can rocks change? Fossils Remember: how are fossils formed and how do we know?		Living Things (Rev 2) Biology	Evolution and Inheritance (Biology) Changes Over Time How have living things changed over time? How do we know? How has life evolved over time? Biological Change What is DNA and what does it do? Are all offspring identical to their parents? Theories of Evolution Darwin and Wallace – What evidence did they share to argue the case for evolution? How have animals adapted and evolved to suit their environment?
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