
The 'essence' of science



The main idea for children to grasp from each science topic

Plants



Year 1	Year 2	Year 3
Plants are all around us. They are all unique.	Plants do a lot to look after themselves, but we need to help them.	Plants have incredible ways to survive anywhere on Earth, we could not survive without plants.
Year 4	Year 5	Year 6
There are 2 main groups of plants: flowering and non-flowering. <i>NB This is taught as part of Living things & their habitats</i>	Plants reproduce in different ways. <i>NB This is taught as part of Living things & their habitats</i> .	The plant kingdom is divided up into many groups, depending on their characteristics. The 2 main groups are flowering and non-flowering. <i>NB This is taught as part of Living things & their habitats</i> Plants were here before humans. They have adapted to survive so long. <i>NB This is taught as part of Evolution</i>

Humans



Year 1	Year 2	Year 3
Each part of my body has a name and a job.	We are responsible for our own health and fitness.	Beneath our skin we have a skeleton and muscles that work together to help us move.
Year 4	Year 5	Year 6
Inside our body, we have a digestive system that works every second to get the nutrients from our foods.	Our bodies continuously grow and change.	We are responsible for taking care of our hearts because it needs a lifetime.

Animals



Year 1	Year 2	Year 3
Animals are all around us. They are all different.	Animals have offspring and they need water, food and air to survive.	Animals must find their own food to survive. Every animal has some kind of skeleton to move.
Year 4	Year 5	Year 6
A food chain shows how living things get their energy and how they link to each other. <i>This is best taught alongside Living things and their Habitats.</i>	Animals continuously grow and change at different rates.	Like humans, animals have a circulatory system too for nutrients. <i>Evolution and Inheritance: Animals that can adapt to a world which is continuously changing will survive. We are who we are today because of nature and nurture.</i>

Living things and their habitats

Year 1	Year 2	Year 3
	Every living thing needs a habitat for its survival.	
Year 4	Year 5	Year 6
Scientists classify living things to help us to understand the world better.	Living things reproduce so their kinds can continue.	Our planet is inhabited by a huge variety of living things. Biologists all life in to 5 kingdoms.

Materials



Year 1	Year 2	Year 3
Every object is made of a material.	People choose the best materials for the job.	We live on a giant ball of rock that is constantly moving and changing. Most things we use have been made from rock. <i>NB This is taught as part of Rocks</i>
Year 4	Year 5	Year 6
Everything around us is either a solid, a liquid or a gas. Materials can change their state. <i>NB This is taught as part of States of Matter</i>	Materials can be grouped based on their properties. Some changes of state can be reversed and some cannot.	<i>Consolidation of knowledge through investigating with materials.</i>

Rocks



Year 1	Year 2	Year 3
		We live on a giant ball of rock that is constantly moving and changing. Most things we use have been made from rock.
Year 4	Year 5	Year 6

States of Matter



Year 1	Year 2	Year 3
Year 4	Year 5	Year 6
Everything around us is either a solid, a liquid or a gas. Materials can change their state.		

Electricity



Year 1	Year 2	Year 3
Year 4	Year 5	Year 6
Many things which we use everyday are powered by electricity. Electricity needs a complete circuit to flow.		Electricity comes from many different sources. Changing each part of a circuit has a different effect.

Light



Year 1	Year 2	Year 3
		We need light to be able to see and there are many sources of light.
Year 4	Year 5	Year 6
		Light travels in a straight line.

Evolution and Inheritance



Year 1	Year 2	Year 3
Year 4	Year 5	Year 6
		Animals that can adapt to a world which is continuously changing will survive. We are who we are today because of nature and nurture.

Earth and Space



Year 1	Year 2	Year 3
Year 4	Year 5	Year 6
	The sun, moon and earth all work together to give us day, night, seasons and years.	

Forces



Year 1	Year 2	Year 3
		<i>Magnets</i> A force is a push or a pull. Forces effect how objects move. Some materials are magnetic and some are not.
Year 4	Year 5	Year 6
	Everything has a force acting upon it. Simple machines make work easier.	

Seasonal Changes



Year 1	Year 2	Year 3
There are four seasons. The world around us changes in each season.		
Year 4	Year 5	Year 6

Sound



Year 1	Year 2	Year 3
Year 4	Year 5	Year 6
There are many sources of sound. Sounds are made by vibrations.		