Science: Year 1 Overview

Key Features							
	PLANTS	ANIMALS (including Humans)	EVERYDAY MATERIALS	SEASONAL CHANGES			
YEAR 1	 Identification and labelling, including trees Structure of plants, including roots, stem, flower, etc. 	 Identification and labelling a variety of common animals (fish, amphibians, reptiles, birds and mammals) Know carnivores, herbivores and omnivores How to care for pets Name parts of the human body 	 Identify and name a range of materials (wood, plastic, glass, metal, water and rock; Classifying and grouping according to a range of physical properties 	 Features of day and night including temperature Weather, associated with seasons 			
Possible Learning Challenges		Why are humans not like tigers? Ind plants would Little Red Ind in our park?	 Which materials should the Three Little Pigs have used to build their house? or What do Aliens think of life on planet Earth? 	 Why does it get dark earlier in winter? or How do the seasons impact on what we do? 			

Science: Year 2 Overview

Key Features							
	PLANTS	LIVING THINGS and their HABITATS	ANIMALS (including Humans)	Uses of Everyday Materials			
YEAR 2	 What plants and seeds need to grow Growing from seeds and bulbs 	 Habitats Living and non living things Early Food Chains 	 Exercise and healthy living What animals and humans need to survive Animals have offspring, which grow to be adults 	 Use of different everyday materials Classifying and grouping Changing materials by bending, etc. 			
Possible Learning Challenges	 How can we grow our own salad? or How can you be the next master chef? 	Why would a dinosaur not make a good pet?	 How will 5 a day help me to be healthy? or How could you be the next Jessica Ennis or Steven Gerrard? 	 What is our school made of? or Which materials did they use to build the Trafford Centre? 			

Science: Year 3 Overview

	ANIMALS (including Humans)	PLANTS	LIGHT	FORCES and MAGNETS	ROCKS
YEAR 3	 Nutrition, linked to what we eat Skeletons and muscles 	 Function of different parts of plants What different plants need to flourish Journey of water through a plant Life cycle of a plant 	 Sources, including the Sun Protecting eyes from the Sun Shadows Reflection /mirrors 	 How magnets attract/repel some materials Magnetic poles Friction 	 How rocks are formed Different kinds of rocks Fossils Soil
Possible Learning Challenges	 How can Usain Bolt move so quickly? 	 How did that blossom become an apple? 	 How far can you throw your shadow? 	 Are you attractive enough? 	 What do rocks tell us about the way the Earth was formed?

Science: Year 4 Overview

	ANIMALS, including Humans	LIVING THINGS and their Habitats	STATES OF MATTER	ELECTRICITY	SOUND
YEAR 4	 Digestive System Teeth Food chains Predators and prey 	 Identify and name a variety of living things (plants and animals) in the local and wider environment and group them Recognise that environments can change and can pose dangers 	 Solids, Liquids and Gases Heating and cooling (no baking, etc.) Evaporation and condensation 	 Identify common appliances Construct simple circuits including switches Common conductors and insulators Alternative sources of energy 	 Sources Vibration Loud and faint Pitch Volume Sound travelling
Possible Learning Challenges	 What happens to the food we eat? 	 Which wild animals and plants thrive in your locality? 	 How would we survive without water? 	 How could we cope without electricity for one day? 	 Why is the sound that 'One Direction' makes enjoyed by so many?

Science: Year 5 Overview

	Living things and their habitats	Animals, including humans	Properties & changes of materials	Earth and space	Forces
YEAR 5	 Life cycles of plants and animals Birth, growth, development and reproduction 	Changes as humans develop from birth to old age	 Dissolving Evaporating Filtering Reversible and Irreversible changes 	 Earth relative to the Sun Moon relative to the Earth Relationship between Sun, Earth and Moon Earth's rotation Day and night 	 Gravity Air Resistance Water Resistance Friction Gears, Pulleys, Leavers and Springs
Possible Learning Challenges	 Do all animals and plants start life as an egg? 	 How different will you be when you are as old as your grandparents? 	 Could you be the next CSI investigator? 	 Will we ever send another human to the moon? 	Can you feel the force?

Science: Year 6 Overview

	LIVING THINGS and their Habitats	ANIMALS, including Humans	EVOLUTION and INHERITANCE	LIGHT	ELECTRICITY
YEAR 6	 Classification of living things Vertebrates and invertebrates Classifying reptiles, amphibians, mammals, insects, etc. 	 Circulatory system Heart, blood vessels Diet, exercise and drugs Transport of nutrients through the body 	 Fossils tell us about the past Off spring Changes to the human skeleton over time Darwin 	How light travelsThe eyeShadows	 Electrical circuits (series) Designing traffic lights
Possible Learning Challenge	 Could Spiderman really exist? 	 What would a journey through your body be like? 	 Have we always looked like this? 	 How can you light up your life? 	 Could you be the next Nintendo apprentice?