



Birds Bush Primary School

Science Curriculum Map



		Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
EYFS	Reception	Our children's understanding of science includes learning about the human body and how we grow and change. The children will learn about changes that other animals go through and how flowers grow. Their knowledge of the natural world will be further developed when they learn about the seasons of the year, and they will make observations of the world around them. Children will also begin to explore the idea of changing matter e.g. when they learn about ice and the concept of melting.					
KSI	Year 1	The Human Body 1. Introduction to Our Body and Our Senses 2. Eyes and Sight 3. Ears and Hearing 4. Touch, Taste and Smell 5. Understanding Sensory Impairment	Animals and their Needs 1. Common Animals 2. Grouping Animals: Fish, Amphibians, Reptiles, Birds and Mammals 3. Grouping Animals: Carnivores, Herbivores and Omnivores 4. Animals as pets 5. Describing Animals	Seasons and Weather 1. The Four Seasons 2. Tools to Record the Weather 3. Using a graph to show information about the weather 4. Clouds: cirrus, cumulus and stratus 5. Weather Forecasting	Taking care of the Earth 1. Taking Care of the Earth 2. Earth's Natural Resources 3. Logging 4. Pollution 5. Recycling	Plants 1. What Plants Need 2. Parts of Plants 3. Seeds 4. Deciduous and Evergreen Plants 5. Plants We Eat	Materials and Magnets 1. Everyday Materials 2. Properties of Materials 3. Uses of Materials 4. Magnets 5. Investigation
	Year 2	The Human Body 1. Survival and Offspring 2. The Skeletal System, The Muscular System and Exercise 3. The Digestive system and Healthy Eating 4. The Circulatory system 5. Germs, Diseases and Preventing Illness	Living Things in their Environments 1. Dead or Alive 2. What is a habitat? 3. Rainforest and Desert Habitats 4. Meadow habitats 5. Underground habitats	Electricity 1. Introduction to Electricity 2. Safety 3. Exploring Circuits (A) 4. Exploring Circuits (B) 5. Investigating Conductive and Non-conductive Materials	Plants 1. Plants around us 2. Seeds and bulbs 3. Comparative Test 1 4. Comparative Test 2 5. Food and Farming	Materials and Matter 1. Materials and Their Uses 2. George de Mestral and Velcro 3. Matter Under the Microscope 4. Changing Solid Objects 5. Liquids and Their Properties	Astronomy 1. Introduction to Astronomy 2. Model the Solar System 3. Orbit and Rotation 4. The Moon and its Phases 5. Constellations



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Lower Key Stage 2	Year 3	The Human Body 1. The Muscular System 2. The Skeletal System 3. The Nervous System 4. Nutrition 5. The Digestive System	Cycles in Nature The Four Seasons 1. Seasonal Cycles in Plants 2. Life Cycle of a Plant 3. Animal Migration 4. Life Cycle of a Frog 5. Rocks Sorting	Rocks 1. Sorting Rocks 2. How Rocks are Formed 3. Permeability 4. Fossils 5. Soil	Forces and Magnets 1. Forces (Gravity) 2. Friction 3. Magnet 4. Magnetic Poles and Fields 5. Investigating the Strength of Magnets	Plants 1. Botany and Flowering Plants 2. Requirements for Life and Growth 3. Water Transportation in Plants 4. Pollination in Flowering Plants 5. Seed Dispersal	Light 6. Light and Dark 7. Transparent and Opaque 8. Mirrors and Reflection 9. Shadows 10. Finding Patterns in Changing Shadows
	Year 4	The Human Body 1. Cells and Nutrients 2. Teeth and Senses 3. Digestion 4. Preparing to Eat 5. Vitamins and Minerals	Classification of Plants and Animals 1. Introduction to Classification 2. Classes of Vertebrates: Fish and Amphibians 3. Classes of Vertebrates: Reptiles, Birds and Mammals 4. Classes of Invertebrates: Insects, Arachnids and Molluscs 5. Classification of Plants	Ecology 1. Living Things and Habitats 2. Natural Cycles 3. Web of Living Things 4. Air Pollution: A Human Threat to the Environment 5. Ecology in our Local Area	Sound 1. What is Sound? 2. Speed of Sound 3. Qualities of Sound Pitch and Volume 4. Human Voice 5. Ears - How We Hear	The Water Cycle 1. States of Matter 2. Evaporation 3. Condensation 4. Precipitation 5. The Water Cycle	Electricity 1. Electrical Safety 2. Parts of a circuit 3. Switches 4. Thomas Edison and Lewis Latimer 5. Investigating Conductive and Non-Conductive Materials



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UKS2	Year 5	<p style="text-align: center;">The Human Body</p> <ol style="list-style-type: none"> Gestation and Infancy Adolescence and Puberty Slowing Down Growth in Humans and Animals Preparation for Assessment (Research and Scientific Drawing) 	<p style="text-align: center;">Materials</p> <ol style="list-style-type: none"> Properties of Materials Which material is best? Solubility - which materials are most soluble/what solubility means Separating Mixtures sieving, filtering, evaporating Reversible Changes dissolving, mixing, change of state 	<p style="text-align: center;">Living Things</p> <ol style="list-style-type: none"> Life Cycles of Plants and Animals in Our Local Area Life Cycles of Mammals and Amphibians Life Cycles of Insects and Birds Reproduction in Plants The Work of David Attenborough and Jane Goodall 	<p style="text-align: center;">Forces</p> <ol style="list-style-type: none"> Forces including Gravity Air Resistance, Water Resistance and Friction Guided Investigation: Paper Drop Guided investigation: Paper Drop Pulleys, Gears and Levers 	<p style="text-align: center;">Astronomy</p> <ol style="list-style-type: none"> The Big Bang and the Expanding Universe Gravity Our Solar System The Moon Our Galactic Neighbourhood 	<p style="text-align: center;">Meteorology</p> <ol style="list-style-type: none"> Meteorology and the Atmosphere The Ozone Layer Air Movement Cold and Warm Fronts Thunder and Lightning
	Year 6	<p style="text-align: center;">The Human Body</p> <ol style="list-style-type: none"> The Heart: Circulation of the Blood Blood Vessels and Transport Blood Pressure and Heart Rate Heart Rate - An Investigation Heart Rate - An Investigation 	<p style="text-align: center;">Classification of Living Things</p> <ol style="list-style-type: none"> Classifying Organisms Cells: Plant and Animal cells Taxonomy Vertebrates Invertebrates 	<p style="text-align: center;">Electricity</p> <ol style="list-style-type: none"> Simple Series Circuits Voltage Switches Planning an Investigation Investigation 	<p style="text-align: center;">Light</p> <ol style="list-style-type: none"> How Light Travels How We See Shadows and Their Shapes The Colour of Light Making a Periscope 	<p style="text-align: center;">Reproduction</p> <ol style="list-style-type: none"> Asexual Reproduction Sexual Reproduction in Non-Flowering Plants Sexual Reproduction in Flowering Plants Reproduction in Animals Growth Stages 	<p style="text-align: center;">Evolution</p> <ol style="list-style-type: none"> Fossils Inheritance Adaptation Charles Darwin Alfred Wallace