**Curriculum Overview**



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|  | **Autumn A** | **Autumn B** | **Spring A** | **Spring B** | **Summer A** | **Summer B** |
| Year 1 | **OQ:****The Human Body**1. Introduction to Our Body and Our Senses2. Eyes and Sight3. Ears and Hearing4. Touch, taste and smell5. Understanding Sensory Impairment**Outcome: Label a blank human body.****Answer Question: What do we know about our senses?** | **OQ:****Animals and their Needs**1. Amazing Animals (Introduction to Animals)
2. Grouping animals: Fish, amphibians, reptiles, birds and mammals
3. Grouping animals: carnivores, herbivores and omnivores
4. Animals as pets
5. Describing animals

**Outcome: Quiz** | **OQ:****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 and what they tell us: cirrus, cumulus and stratus
5. Weather forecasting

**Outcome: Option A or B on PKC.** | **OQ:****Taking Care of the Earth**1. Taking Care of the Earth
2. Earth’s Natural Resources
3. Logging
4. Pollution
5. Recycling

**Outcome: Quiz** | **OQ:****Plants**1. What plants need2. Parts of plants3. Seeds4. Deciduous and evergreen plants5. Plants we eat**Outcome: PKC task – write a report about plants.** | **OQ:****Materials and Magnets**1. Everyday Materials
2. Properties of Materials
3. Uses of Materials
4. Magnets
5. Investigation

**Outcome: Quiz** |
| Year 2 | **OQ:****The Human Body**1. Animals, including humans, survival and offspring2. The Skeletal System, The Muscular System and Exercise3. The Digestive system and Healthy Eating4. The Circulatory system5. Germs, diseases and preventing illness**Outcome: Create a survey (PKC task)** | **OQ:****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

**Outcome: Compare two habitats (PKC)** | **OQ:****Electricity**1. Introduction to Electricity2. Safety3. Exploring Circuits (A)4. Exploring Circuits (B)5. Investigating conductive and non-conductive materials**Outcome: Draw a circuit and write an explanation (PKC)** | **OQ:****Plants**1. Plants around us
2. Seeds and bulbs
3. Comparative test 1
4. Comparative Test 2
5. Food and Farming

**OUT: Quiz** | **OQ:****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

**OUT: Design a garden for school (PKC task)** | **OQ:****Astronomy**1. Introduction to Astronomy
2. Model the Solar System
3. Orbit and Rotation
4. The Moon and its Phases
5. Constellations

**OUT: Quiz** |
| Year 3 | **OQ:****The Human Body**1. The Muscular System
2. The Skeletal System
3. The Nervous System
4. Preparing to Eat
5. The Digestive System

**OUT: Essay (paragraph/diagram on each system)** | **OQ:****Cycles in Nature**1. The Four Seasons (prior learning)
2. Seasonal Cycles in Plants
3. Life Cycle of a Plant
4. Animal Migration
5. Life Cycle of a Frog

**OUT: Quiz** | **OQ:****Light**1. Light and Dark
2. Transparent and opaque surfaces
3. Mirrors and reflection
4. Shadows
5. Finding patterns in changing shadows

**OUT: Option A or B PKC tasks.** | **OQ:****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

**OUT: Task – How do flowering plants reproduce (PCK task)** | **OQ:****Rocks**1. Sorting rocks
2. How Rocks are Formed
3. Permeability
4. Fossils
5. Soil

**OUT: Quiz** | **OQ:****Forces and Magnets**1. Forces (Gravity)
2. Friction
3. Magnet
4. Magnetic Poles and Fields
5. Investigating the strength of magnets

**OUT: PCK Task – Explain the statements.** |
| Year 4 | **OQ:****The Human Body**1. Cells and Nutrients
2. Teeth and Senses
3. Digestion
4. A Healthy Diet
5. Vitamins and Minerals

**OUT: Quiz** | **OQ:****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

**OUT: Option A or B – PKC Task** | **OQ:****Ecology**1. Living things and Habitats
2. Natural Cycles
3. Web of Living Things
4. Human Threats to the Environment
5. Ecology in our Local Area

**OUT: Option 1 or 2 PKC tasks** | **OQ:****Sound**1. What is sound?
2. Speed of sound
3. Qualities of sound – Pitch and Volume
4. Human Voice
5. Ears- how we hear

**OUT: Essay** | **OQ:****The Water Cycle**1. States of Matter
2. Evaporation
3. Condensation
4. Precipitation
5. The Water Cycle

**OUT: Essay** | **OQ:****Electricity**1. Electrical Safety
2. Parts of a circuit
3. Switches
4. Thomas Edison and Lewis Latimer
5. Investigating conductive and non-conductive materials

**OUT: Quiz** |
| Year 5 | **OQ:****The Human Body:**1. Human Growth Stages
2. Adolescence and Puberty
3. Slowing Down
4. Growth in Humans and Animals
5. Preparation for Assessment (research and scientific drawing)

**OUT: Essay** | **OQ:****Materials**1. Properties of materials
2. Which material is best?
3. Solubility- which materials are most soluble/what solubility means
4. Separating mixtures- sieving, filtering, evaporating
5. Reversible changes- dissolving, mixing, change of state

**OUT: PKC independent task – children design experiment to separate.** | **OQ:****Living Things**1. Life cycles of plants and animals in our local area
2. Reproduction in Plants
3. Life cycles of Mammals and Amphibians
4. Life cycles of insects and birds
5. The work of David Attenborough and Jane Goodall

**OUT: Quiz** | **OQ:****Forces**1. Forces including gravity
2. Air resistance, water resistance and friction
3. Guided investigation: Paper Drop
4. Guided investigation: Paper Drop
5. Pulleys, gears and levers

**OUT: Quiz** | **OQ:****Astronomy*** 1. The Big Bang and the expanding universe
	2. Gravity
	3. Our Solar System
	4. The Moon
	5. Our Galactic neighbourhood

**OUT: Essay** | **OQ:****Meteorology**1. Meteorology and the Atmosphere
2. The Ozone Layer
3. Air Movement
4. Cold and Warm Fronts
5. Thunder and Lightning

**OUT: Weather report/forecast (PKC)** |
| Year 6 | **OQ:****The Human Body**1. The Heart: Circulation of the Blood
2. Blood Vessels and Transport
3. Components of Human Blood
4. Blood Pressure and Heart Rate
5. Heart Rate- an Investigation

**OUT: Essay plus diagrams** | **OQ:****Classification of Living Things**1. Classifying organisms2. Cells: Plant and Animal cells3. Taxonomy4. Vertebrates5. Invertebrates**OUT: PKC Skills task** | **OQ:****Electricity**1. Simple Series Circuits
2. Parallel Circuits
3. Switches
4. Planning an investigation
5. Investigation

**OUT: Quiz plus applying knowledge (PKC )** | **OQ:****Light**1. How light travels
2. How we see
3. Shadows and their shapes
4. The Colour of Light
5. Making a periscope

**OUT: Essay** | **OQ:****Reproduction**1. Asexual reproduction
2. Sexual reproduction in non-flowering plants
3. Sexual reproduction in flowering plants
4. Reproduction in animals
5. Growth stages

**OUT: Option A or B PKC** | **OQ:****Evolution*** + 1. Fossils and Evolution
		2. Inheritance
		3. Adaptation
		4. Charles Darwin
		5. Alfred Wallace

**OUT: Option A, B or C PKC** |