PKC Cymru

Science & Technology Overview

	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 1	**The Human Body** 1.Introduction to our senses 2.Eyes and Sight 3.Ears and Hearing 4.Touch, Taste and Smell 5.Understanding Sensory Impairment	**Seasons and Weather** 1.The four seasons 2.Tools to record the weather 3.Graphs 4.Clouds 5.Weather forecasting	**Materials Around Us** 1. Everyday Materials 2. Properties of Materials 3. Uses of Materials 4. Magnets 5. Investigation	**Plants** 1. What plants need 2. Parts of plants 3. Seeds 4. Deciduous and evergreen plants 5. Plants we eat	**Animals and their Needs** 1. Common animals 2. Grouping animals 3. Grouping animals 4. Pets 5. Describing animals	**Taking Care of the Earth** 1. Fossils and Mary Anning 2. Inheritance 3. Adaptation 4. Charles Darwin 5. Alfred Wallace
Year 2	**The Human Body** 1.Animals,including humans 2.Systems 3.The Digestive System and Healthy Eating 4.The Circulatory System 5.Germs	**Astronomy** 1.Introduction to Astronomy 2.Model the Solar System 3.Orbit and Rotation 4.The Moon and its Phases 5.Constellations	**Changing Materials** 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	**Plants** 1. Plants around us 2. Seeds and bulbs 3. Comparative test 1 4. Comparative test 2 5. Food and Farming	**Living Things and their Environment** 1.Dead or Alive 2.What is a Habitat? 3.Rainforest and Desert Habitats 4.Underground Habitats 5.Food Chains	**Keeping Safe with Electricity** 1. Introduction to Electricity 2. Safety 3. Exploring Circuits (A) 4. Exploring Circuits (B) 5. Investigating Conductive and non-conductive materials
Year 3	**The Human Body** 1. The Muscular System 2. The Skeletal System 3. The Nervous System 4. Nutrition 5. The Digestive System	**Forces and Magnets** 1. Forces (Gravity) 2. Friction 3. Magnet 4. Magnetic Poles and Fields 5. Investigating magnets	**Rocks** 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	**Plants** 1. Botany and Flowering Plants 2. Life and Growth 3. Water Transportation 4. Pollination 5. Seed Dispersal	**Cycles in Nature** 1. Seasonal Cycles 2. Plants 3. Life Cycle of a Plant 4. Animal 5. Life Cycle of a Frog	**Light** 1. Light and Dark 2. Transparent and Opaque 3. Mirrors 4 & 5. Investigation Shadows
Year 4	**The Human Body** 1. Cells and Nutrients 2. Teeth and Senses 3. Digestion 4. Preparing to Eat 5. Vitamins and Minerals	**The Water Cycle** 1. States of Matter 2. Evaporation 3. Condensation 4. Precipitation 5. The Water Cycle	**Sound** 1. What is sound? 2. Speed of sound 3. Qualities of sound - Pitch and Volume 4. Human 5. Ears – How we Hear	**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 Areas	**Classification of Plants and Animals** 1. Introduction to classification 2. Fish and Amphibians 3. Reptiles, Birds and Mammals 4. Insects, Arachnids and Molluscs 5. Classification of plants	**Electricity** 1. Electrical Safety 2. Parts of a circuit 3. Switches 4. Thomas Edison and Lewis Latimer 5. Investigating conductive and non-conductive materials
Year 5	**The Human Body** 1. Gestation and Infancy 2. Adolescence and Puberty 3. Slowing Down 4. Growth in Humans and Animals 5. Research and scientific drawing	**Astronomy** 1. The Big Bang and the Expanding Universe 2. Gravity 3. Our Solar System 4. The Moon 5. Our Galactic Neighbourhood	**Forces** 1. Introduction to Forces 2. Friction, Air Resistance and Water Resistance 3 & 4. Air/Water Resistance Investigations 5. Pulleys, Levers and Gears	**Living Things and their Habitats** 1. Life Cycles in our Local Area 2. Mammals and Amphibians 3. Insects and Birds 4. Reproduction in Plants 5. The Work of David Attenborough and Jane Goodall	**Classification of Living Things** 1. Classifying organisms 2. Cells: Plant and Animal cells 3. Taxonomy 4. Vertebrates 5. Invertebrates	**Light** 1. How Light Travels 2. How We See 3. Shadows and Their Shapes 4. The Colour of Light 5. Making a Periscope
Year 6	**The Human Body** 1. The Heart 2. Blood Vessels and Transport 3. Blood Pressure and Heart Rate 4. Heart Rate - an Investigation 5. Heart Rate - an Investigation	**Meteorology** 1. Meteorology and the Atmosphere 2. The Ozone Layer 3. Air Movement 4. Cold and Warm Fronts 5. Thunder and Lightning	**Materials** 1. Properties of materials 2. Which material is best? 3. Solubility 4. Separating mixtures 5. Reversible changes	**Plants** 1. Asexual reproduction 2. Sexual reproduction in non-flowering plants 3. Sexual reproduction in flowering plants 4. Photosynthesis 5. Plant Adaptation	**Survival** 1. Fossils and Mary Anning 2. Inheritance 3. Adaptation 4. Charles Darwin 5. Alfred Wallace	**Electricity** 1. Simple Circuits 2. Voltage 3. Switches 4. Planning an Investigation 5. Investigation

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Year 2	The Human Body	Astronomy	Changing Materials	Plants	Living Things and their Environment	Keeping Safe with Electricity
Year 3	The Human Body	Forces and Magnets	Rocks	Plants	Cycles in Nature	Light
Year 4	The Human Body	The Water Cycle	Sound	Ecology	Classification of Living Things	Electricity
Year 5	The Human Body	Astronomy	Forces	Living Things and their Habitats	Classification of Living Things	Light
Year 6	The Human Body	Meteorology	Materials	Plants	Survival	Electricity