

Wincheap Foundation Primary School Science Curriculum Overview



Year 1

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<p>The Human Body Identify and Name parts of the body, Draw and Label Parts of the Body. Identify and discuss all 5 senses. Match senses to body parts. Working Scientifically. Investigation of 5 senses.</p> <p>Seasonal Changes Changes in Autumn, collect and record data.</p>	<p>Materials Explore materials- wood, metal, plastic, rock and glass. Objects and Materials Melt and freeze Float or sink? Does it absorb water? Investigate materials</p> <p>Seasonal Changes Changes in Winter, collect and record data.</p>	<p>Planting A Plants-Winter</p> <p>Animals Mammals, Birds, Fish Amphibians and Reptiles Compare and Group Animals Herbivores, Omnivores and Carnivores</p>	<p>Caring for the Planet Why is it important to care for the planet? How can we care for the planet?</p> <p>Seasonal Changes Changes in Spring and Collect and Record Data</p> <p>Planting B Observe Changes Plant-Spring</p>	<p>Plants Plant Parts Tree Parts Wild and Garden Plants Evergreen Trees and Deciduous Trees Trees and Plants in my Local Area</p> <p>Planting C Observe Changes</p>	<p>Planting C Plant-Summer</p> <p>Growing and Cooking Planting C Where does my food come from? What have I planted and grown this year?</p> <p>Seasonal Changes Changes in Summer and Collect and Record Data What are the main changes in each season?</p>

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Year 2

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<p>Animals Needs for Survival Mammals Birds, Fish, Amphibians and Reptiles Humans</p> <p>Humans Exercise Food and Teeth Hygiene</p>	<p>Materials Explore Materials Wood, Paper, Cardboard, Brick, Rock, Plastic, Glass, Fabric and Metal Test materials - bend, squash, twist and stretch Plan and Investigate - Waterproof Experiment</p> <p>Plastic How is plastic helpful and harmful? How can we reduce our plastic waste in school?</p>	<p>Plants (Light and Dark) Explore Plants and Parts of a Plant What do plants need to grow? Plan and Investigate Light and Dark - Plants (Light and Dark) Plant Investigation Findings.</p> <p>Living Things and Their Habitats Habitats in my Local Area Polar Habitats Dessert Habitats</p>	<p>Living Things and Their Habitats Ocean Habitats Woodland Habitats Microhabitats Habitats and Diets and Food Chains Living, Dead or Never Alive?</p>	<p>Plants (Bulbs and Seeds) - Recap of What Plants Need to Grow and Bulb or Seed? Plan and Plant- Bulbs and Seeds</p> <p>Growing Up Parents and Offspring Life Cycle of Humans and Other Mammals Life Cycle of Amphibians Life Cycle of a Butterfly</p> <p>Plants (Bulbs and Seeds) Findings of Bulbs and Seeds</p>	<p>Growing Up Butterfly Diary Wildlife What does wildlife do for us? What can we do for wildlife?</p>

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Year 3

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<p>Skeletons Identify and Name Bones in the Human Body Functions of the Skeleton Identify and Name Bones in a range of Animals, Animals With and Without a Spine and Are all skeletons the same?</p> <p>Movement Joints and How we move</p> <p>Nutrition and Diet Food Groups and Understanding the Food Groups Balanced Diets</p>	<p>Nutrition and Diet Compare Diets and Animal Diets</p> <p>Food Waste What is food waste? How can we reduce food waste?</p> <p>Rocks Identify and Group Rocks Test Rocks Local Rock Survey</p>	<p>Fossils Explore Fossils Fossil Formation</p> <p>Soil Explore Soil The Importance of Soil Plan, Investigate and Evaluate Soil Experiment</p>	<p>Light Light Sources The Sun How We See Shadows Opaque, Translucent and Transparent Plan, Investigate and Evaluate Shadow Experiment</p>	<p>Plants A Parts of a Plant and their Functions Plan and Investigate Plant Growth The Stem and Water Transportation Plant Dissection and Reproductive Parts in a Plant Looking at Seeds, Pollination and Seed Dispersal Life Cycle of Plants</p> <p>Plants B Findings</p>	<p>Forces Explore Forces Friction, Plan and Investigate Friction</p> <p>Magnets Magnets Magnetic and Non-Magnetic Materials North and South Poles</p> <p>Biodiversity What is biodiversity? How can we increase biodiversity in the local area?</p>

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Year 4

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<p>Group And Classify Living Things Group Animals, Vertebrates and Invertebrates Classification Key (Animals) Group Plants and Classification Key (Plants)</p> <p>Data Collection A Data Collection A and Analyse Data</p> <p>States of Matter Explore Solids, Liquids and Gases Think differently- Solids, Liquids and Gases</p>	<p>States of Matter Change states Use Equipment Plan and Investigate- Melting Experiment Water Cycle Plan, Investigate and Evaluate – Evaporation Experiment</p>	<p>Sound Vibrations The Ear Investigate Sounds Explore Volume and Pitch Plan, Investigate and Evaluate- Volume Experiment</p> <p>Data Collection B Data Collection B and Analyse Data</p>	<p>Electricity Common Appliances that use Electricity Build and Draw Series Circuits What has gone wrong? Conductors and Insulators Conductivity within a Circuit</p> <p>Energy What is energy? How can we reduce our energy usage?</p>	<p>Data Collection C Data Collection C and Analyse Data Make Conclusions</p> <p>Habitats Living Things and Their Habitats Human Impact on Habitats Classification Keys</p> <p>Deforestation What is deforestation? What are the impacts in the UK and the rest of the world?</p> <p>The Digestive System Teeth- Carnivores, Herbivores and Omnivores and Human Teeth</p>	<p>The Digestive System Layers of Teeth Plan- Tooth Decay Experiment The Digestive System and The Digestive System-Model Tooth Decay Experiment- Findings</p> <p>Food Chains What is a food chain? Interpret and Draw Food Chains What would happen if?</p>

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Year 5					
Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<p>Forces Friction and Air Resistance Plan, Investigate and Evaluate- Parachute Experiment Plan and Investigate- Water Resistance Explore Gravity Use small forces for greater effect</p>	<p>Space The Solar System and Planets Modelling, Ideas over time Motion of Earth and Planets Planet Earth Night and Day and The Moon</p> <p>Global Warming What is global warming? What is the impact of global warming on living things?</p>	<p>Properties of Materials Test Materials- Magnetic, Transparency, Hardness and Electrical Conductivity Plan, Investigate and Evaluate- Insulating Heat Experiment Uses of everyday materials - plastic, wood and metal</p> <p>Animals including Humans Human Life Cycle Babies and Children Adolescence and Puberty</p>	<p>Animals including Humans Adults and the Elderly Gestation period of mammals and Gestation periods and lifespan</p> <p>Life Cycles Life Cycles of Mammals Life Cycle of Amphibians Life Cycle of Insects and Birds</p>	<p>Reproduction A Sexual Reproduction in Animals Reproductive Parts in a Plant and Pollination Asexual Reproduction Plan and Plant- Cloning Plants</p> <p>Reversible and Irreversible Changes Dissolving Separate Materials- filtering and sieving Solutions and Evaporating</p>	<p>Reversible and Irreversible Changes Reversible Changes Irreversible Changes – Burning and Acid</p> <p>Plastic Pollution What is plastic pollution? What is the impact of plastic pollution on the planet?</p> <p>Reproduction B Findings and Interpret Data</p>

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Year 6

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<p>Living Things and Their Habitats</p> <p>Conditions for Life Group Organisms Classify Animals Classify Plants Microorganisms and Classify Microorganisms Carl Linnaeus</p>	<p>Electricity</p> <p>Construct and Draw series circuits using symbols Complete and Incomplete Circuits Variations within Circuits Plan, Investigate and Evaluate Voltage Experiment</p> <p>Renewable Energy</p> <p>What is renewable energy? & Using Renewable Energy</p>	<p>Light</p> <p>How we see Light and Straight Lines Shadow Formation & Plan, Investigate and Evaluate Shadow Experiment Refraction Explore Light</p> <p>Light Pollution</p> <p>What is light pollution? & How can we reduce light pollution?</p>	<p>Circulatory System</p> <p>The Circulatory System Blood & Oxygenated and Deoxygenated Blood The Heart, Blood Flow in the Heart and Dissection of the Heart</p> <p>Diet, Drugs and Lifestyle</p> <p>Diet Drugs and Cigarettes Plan, Investigate and Evaluate Heart Rate Experiment</p>	<p>Variation</p> <p>Variation Inheritance and Characteristics</p> <p>Adaptations</p> <p>Animal and Plant Adaptations Evolution and Natural Selection Charles Darwin and Darwins Finches</p>	<p>Fossils</p> <p>Fossil Formation & Explore Fossils Mary Anning</p> <p>Themed Projects</p> <p>Project 1- Melting Points Project 2- Thermal Conductivity</p>