



Monkston Primary School KS2 Science Curriculum Overview



	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 3	<p>Skeletons</p> <ul style="list-style-type: none">Identify and name bones in the human bodyFunctions of the skeletonIdentify and name bones in a range of animalsAnimals with and without a spineAre all skeletons the same? <p>Movement</p> <ul style="list-style-type: none">JointsHow we move	<p>Nutrition and Diet</p> <ul style="list-style-type: none">Food groupsUnderstand the five food groupsBalanced dietsCompare dietsAnimal diets <p>Food Waste</p> <ul style="list-style-type: none">What is food waste?How can we reduce our food waste? <p>Rocks</p> <ul style="list-style-type: none">Identify rocksGroup rocksTest rocksLocal rock survey	<p>Fossils</p> <ul style="list-style-type: none">Explore fossilsFossil formation <p>Soils</p> <ul style="list-style-type: none">Explore soilThe importance of soilPlan a soil experimentInvestigate soilEvaluate soil experiment	<p>Light</p> <ul style="list-style-type: none">Light sourcesThe sunHow we seeShadowsOpaque, translucent or transparent?Plan a shadow experimentInvestigate shadowsEvaluate shadow experiment	<p>Plants</p> <ul style="list-style-type: none">Parts of a plant and their functionsPlant dissectionPlant growthThe stem and water transportationLooking at seedsReproductive parts in plantsPollinationSeed dispersalLife cycles	<p>Forces</p> <ul style="list-style-type: none">Explore forcesFrictionPlan a friction experimentInvestigate friction <p>Biodiversity</p> <ul style="list-style-type: none">What is biodiversity?How can we increase biodiversity in our local area?

	Autumn A	Autumn B	Spring 1	Spring 2	Summer 1	Summer 2
Year 4	<p>Group and Classify Living Things</p> <ul style="list-style-type: none"> • Group animals • Vertebrates and invertebrates • Classification keys (animals) • Group plants • Classification keys (plants) <p>Data Collection</p> <ul style="list-style-type: none"> • Data collection • Analyse data 	<p>States of Matter</p> <ul style="list-style-type: none"> • Explore solids, liquids and gases • Change states • Use equipment • Plan a melting experiment • Investigate melting • The water cycle • Plan an evaporation experiment • Investigate evaporation • Evaluate experiment 	<p>Sound</p> <ul style="list-style-type: none"> • Vibrations • The ear • Investigate sounds • Explore volume • Explore pitch • Plan a volume experiment • Investigate volume • Evaluate volume experiment <p>Data Collection</p> <ul style="list-style-type: none"> • Data collection • Analyse data 	<p>Electricity</p> <ul style="list-style-type: none"> • Common appliances • Build and draw series circuits • What has gone wrong? • Conductors and insulators • Conductivity within a circuit <p>Energy</p> <ul style="list-style-type: none"> • What is energy? • How can we reduce our energy usage? 	<p>Data Collection</p> <ul style="list-style-type: none"> • Data collection • Analyse data • Make conclusions <p>Habitats</p> <ul style="list-style-type: none"> • Living things and their habitats • Classification keys for animals and plants • Human impact on habitats <p>Deforestation</p> <ul style="list-style-type: none"> • What is deforestation? • What are the impacts in the UK and the rest of the world? 	<p>The Digestive System</p> <ul style="list-style-type: none"> • Teeth – carnivores, herbivores and omnivores • Human teeth • Layers of the teeth • Plan a tooth decay experiment • The digestive system • Findings of experiment <p>Food Chains</p> <ul style="list-style-type: none"> • What is a food chain? • Interpret food chains • Draw food chains • What would happen if...?

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Year 5	Forces <ul style="list-style-type: none"> • Friction • Air resistance • Plan a parachute experiment • Investigate parachutes • Evaluate parachutes • Plan a water resistance experiment • Investigate water resistance • Explore gravity • Use small forces for greater effects 	Space <ul style="list-style-type: none"> • The solar system • The planets • Modelling • Motion of the Earth and planets • The solar system – ideas over time • Planet Earth • Night and day • The moon Global Warming <ul style="list-style-type: none"> • What is global warming? • What are the impacts of global warming on living things? 	Properties of Materials <ul style="list-style-type: none"> • Test materials – magnetism, transparency and hardness • Test materials – electrical conductivity • Plan insulating heat experiment • Investigate insulating heat • Evaluate • Uses of everyday materials – plastic, wood and metal 	Animals Including Humans <ul style="list-style-type: none"> • The human life cycle • Babies and children • Adolescence and puberty • Adults and the elderly • Gestation periods of mammals • Gestation periods and lifespan Life Cycles <ul style="list-style-type: none"> • Life cycles of mammals • Life cycles of amphibians, insects and birds 	Reproduction <ul style="list-style-type: none"> • Sexual reproduction in mammals • Reproductive parts in plants • Pollination • Asexual reproduction • Investigate cloning plants Reversible and Irreversible Changes <ul style="list-style-type: none"> • Dissolving • Separating materials • Solutions and evaporation • Reversible changes • Irreversible changes – burning and acid 	Plastic Pollution <ul style="list-style-type: none"> • What is plastic pollution? • What are the impacts of plastic pollution on the planet? Reproduction <ul style="list-style-type: none"> • Findings from cloning plants investigation

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Year 6	Living Things and their Habitats <ul style="list-style-type: none"> • Conditions for life • Group organisms • Classify animals • Classify plants • Microorganisms • Classify microorganisms • Carl Linnaeus 	Electricity <ul style="list-style-type: none"> • Construct and draw series circuits using symbols • Complete and incomplete circuits • Variations with circuits • Plan a voltage experiment • Investigate voltage • Evaluate voltage experiment Renewable Energy <ul style="list-style-type: none"> • What is renewable energy? • Using renewable energy 	Light <ul style="list-style-type: none"> • How we see • Light and straight lines • Shadow formation • Plan a shadow experiment • Investigate shadows • Evaluate shadow experiment • Refraction • Explore light Light Pollution <ul style="list-style-type: none"> • What is light pollution? • How can we reduce light pollution? 	The Circulatory System <ul style="list-style-type: none"> • The circulatory system • Blood • The heart • Blood flow in the heart • Oxygenated and deoxygenated blood • Dissection of the heart Diet, Drugs and Lifestyle <ul style="list-style-type: none"> • Diet • Drugs • Cigarettes • Plan a heart rate experiment • Investigate heart rate • Evaluate heart rate experiment 	Variation <ul style="list-style-type: none"> • Variation • Inheritance and characteristics Adaptations <ul style="list-style-type: none"> • Animal adaptations • Plant adaptations • Evolution • Charles Darwin • Natural selection • Darwin's finches 	Fossils <ul style="list-style-type: none"> • Fossil formation • Explore fossils • Mary Anning Themed Projects <ul style="list-style-type: none"> • Investigate melting points • Investigating thermal conductivity