

Year group	Autumn 1 Objectives	Autumn 2 Objectives		Spring 1 Objectives	Spring 2 Objectives	Summer 1 Objectives	Summer 2 Objectives	
Nursery	All about me I can talk about the world around us, observing plants and animals.	Light and Colour I can talk about the natural world using words linked to my senses. I can begin to talk about the different seasons and changes that occur in them.		Super Heroes I am beginning to understand that materials have different uses e.g wool keeps us warm, plastic is waterproof.	On the Farm I understand how a seed grows and what it needs. I know how to care for living things	Minibeasts I can talk about the key features of life cycles of plants and animals, using key vocabulary. I can talk about what makes a good habitat for a minibeast I know which minibeasts like hot climates and which like cold climates. I can locate minibeasts in my local area.	Journeys I can talk about the different ways some machines work e.g wings, wheels ect. I can talk about different forces and make simple predictions e.g changing the angles of ramps. I can investigate simple changes in materials e.g how to melt ice.	
Reception	All about me I can explore the world around me using my senses and talk about what I notice.	Dinosaurs I can draw pictures of dinosaurs, and use these to talk about the natural world. I can talk about, compare and contrast the different features of dinosaurs. I can categorise dinosaurs based on their features and diets. I can use key words to describe the type of diets dinosaurs have. I understand that dinosaurs were born from eggs.		Traditional tales I can name and describe the different seasons I can explore materials. I can explain why different materials are used for different purposes. I can identify different materials in my local area/environment. I understand when an item is hot or cold and can use this vocabulary to describe the temperature of an item. I can talk about changes of state in simple ways e.g what happens when something is baked (gingerbread men).	Long ago Opportunities will be planned in provision based on the children's current interests e.g forces with cars down ramps, simple experiments, exploring natural materials etc.	Growing I can talk about the different habitats creatures live in. I can look for creatures in the outdoor area, discussing the different places they are found. I can draw pictures of animals and plants, and use these to talk about the natural world. I can plant a seed, and observe its progress. I can talk about the key features of life cycles using key vocabulary. I can talk about the world around us observing plants and animals. I can describe what happens in the different seasons, and sequence them.	Space I can talk in simple terms about the effects of gravity on different objects. I can talk about similarities and differences of the earth's atmosphere, compared to other planets.	
1	The Human body 1. Identify and name parts of the human body 2. Draw and label parts of the human body 3. Sight 4. Sound 5. Taste 6. Touch 7. Smell		Materials 1. Explore materials – wood, plastics, glass and metal 2. Explore materials – Rock 3. Objects and materials. 4. Melt & Freeze 5. Float or sink? 6. Does it absorb water? 7. Investigate materials.	Animals 1. Mammals 2. Birds 3. Fish 4. Amphibians 5. Reptiles 6. Compare & groups animals 7. Carnivores 8. Herbivores 9. Omnivores	Caring for the planet 1. Why is it important to care for our planet? 2. How can we care for our planet?	Plants 1. Plant parts 2. Tree parts 3. Wild & garden plants 4. Plants in my local area 5. Deciduous Trees 6. Evergreen Trees 7. Trees in my local area	Growing and cooking 1. Where does my food come from? What have I planted and grown this year?	
2	Animals need for survival	1. Exercise 2. Food	1. Explore Materials	Plants (light and Dark) 1. Explore plants 2. Plant parts	Living things and their habitats	Plants – Bulbs & Seeds 1. Bulb or seed?	Growing up 1. Parent & offspring	Wildlife 1. What does wildlife do for us?

	<div>1. Mammals</div> <div>2. Birds</div> <div>3. Fish</div> <div>4. Amphibians</div> <div>5. Reptiles</div> <div>6. Humans</div>	<div>3. Hygiene</div> <div>4. Teeth</div>	<div>2. Wood, paper, cardboard</div> <div>3. Brick and rock</div> <div>4. Glass and plastic</div> <div>5. Metal</div> <div>6. Fabrics</div> <div>7. Same object, different material</div> <div>Test materials – bend, squash, twist and stretch</div>	<div>3. What do plants need to grow?</div> <div>4. Plan – light & dark</div> <div>5. Investigate – light and dark</div>	<div>1. Habitats in my local area</div> <div>2. Polar habitats</div> <div>3. Desert habitats</div> <div>4. Ocean Habitats</div> <div>5. Woodland Habitats</div> <div>6. Microhabitats</div> <div>7. Habitats & diet</div> <div>8. Food Chains</div> <div>9. Living, dead or never alive?</div>	<div>2. What do plants need to grow?</div> <div>3. Plan – Bulbs & seeds</div> <div>4. Plant – bulbs & Seeds</div>	<div>2. Life Cycle of humans</div> <div>3. Lifecycles of different mammals</div> <div>4. Lifecycle of amphibians</div> <div>5. Lifecycle of butterflies</div>	What can we do for wildlife?		
3	<div>Skeletons</div> <div>1. Identify and name bones in the human body</div> <div>2. Functions of the skeleton</div> <div>3. Identify and name bones in a range of animals</div> <div>4. Animals with and without spine</div> <div>5. Are all skeletons the same?</div>	<div>Movement</div> <div>Joints</div> <div>How we move</div>	<div>Nutrition and Diet</div> <div>1. Food Groups</div> <div>2. Understand the 5 food groups</div> <div>3. Balanced Diets</div> <div>4. Compare diets</div> <div>Animal Diets</div>	<div>Rocks</div> <div>1. Identifying Rocks</div> <div>2. Group Rocks</div> <div>3. Test rocks</div> <div>4. Local rock survey</div>	<div>Fossils</div> <div>1. Explore Fossils</div> <div>2. Fossil Formations</div>	<div>Soils</div> <div>1. Explore soil</div> <div>2. The importance of soil</div> <div>3. Plan – soil experiment</div> <div>4. Investigate – soil experiment</div> <div>5. Evaluate – soil experiment</div>	<div>Light</div> <div>1. Light sources</div> <div>2. The Sun</div> <div>3. How we see</div> <div>4. Shadows</div> <div>5. Opaque, translucent or transparent?</div> <div>6. Plan – Shadow experiment</div> <div>7. Investigate – shadow experiment</div> <div>8. Evaluate – shadow experiment</div>	<div>Plants A and B</div> <div>1. Parts of a plant and their functions</div> <div>2. Plant dissection</div> <div>3. Plan – plant growth</div> <div>4. Plant – plant growth</div> <div>5. The stem and water transformation</div> <div>6. Looking at seeds</div> <div>7. Reproductive parts in plants</div> <div>8. Pollination</div> <div>9. Seed dispersal</div> <div>10. Life cycle of a plant.</div>	<div>Forces</div> <div>1. Explore Forces</div> <div>2. Friction</div> <div>3. Plan – friction experiment</div> <div>4. Investigate – friction experiment</div>	<div>Magnets</div> <div>1. Magnets</div> <div>2. Magnetic & non magnetic materials</div> <div>3. Investigate metals</div> <div>North & South poles – attract & repel.</div>
4	<div>Group and classify living things</div> <div>1. Group Animals</div> <div>2. Vertebrates and invertebrates</div> <div>3. Classification key (plants)</div> <div>4. Group plants</div> <div>5. Classification key (animals)</div>	<div>Data Collection A</div> <div>1. Data Collection A</div> <div>2. Analyse Data</div>	<div>States of matter</div> <div>1. Explore solids, liquids and gases.</div> <div>2. Think differently – Solid, liquids & Gases</div> <div>3. Change states</div> <div>4. Use Equipment</div> <div>5. Plan – melting experiment</div> <div>6. Investigate – melting experiment</div> <div>7. The Water Cycle</div> <div>8. Plan – evaporation experiment</div> <div>9. Investigate – evaporation experiment</div> <div>10. Evaluate – evaporation experiment</div>	<div>Sound</div> <div>1. Vibrations</div> <div>2. The Ear</div> <div>3. Investigate Sounds</div> <div>4. Explore Volume</div> <div>5. Explore Pitch</div> <div>6. Plan - Volume Experiment</div> <div>7. Investigate – volume experiment</div> <div>8. Evaluate – Volume Experiment</div>	<div>Electricity</div> <div>1. Common appliance that use electricity</div> <div>2. Build & draw series circuits</div> <div>3. What has gone wrong?</div> <div>4. Conductors and insulators</div>	<div>Habitats</div> <div>1. Living Things & their habitat</div> <div>2. Classification key – animals</div> <div>3. Classification keys – plants</div> <div>4. Human impact on habitats</div>	<div>The digestive System</div> <div>1. Teeth</div> <div>2. Human Teeth</div> <div>3. Layers of teeth</div> <div>4. Plan – tooth decay experiment</div> <div>5. The digestive system</div> <div>6. The digestive system model</div> <div>7. Findings – tooth decay experiment</div>	<div>Food Chains</div> <div>1. What is a food chain?</div> <div>2. Interpret food chains</div> <div>3. Draw Food chains</div> <div>4. What would happen if...?</div>		

						5. Conductivity within a circuit				
5	Forces 1. Friction 2. Air resistance 3. Plan – Parachute experiment 4. Investigate 5. Evaluate 6. Plan 7. Investigate 8. Explore gravity 9. Use small forces for greater effects	Space 1. The Solar System 2. The Planets 3. Modelling 4. Motion of the Earth and planets 5. The Solar System – ideas over time 6. Planet Earth 7. Night and Day 8. The Moon	Global Warming 1. What is Global Warming? What are the impacts of Global Warming on living things?	Properties of materials 1. Test materials – magnetic, transparency & hardness 2. Test materials – electrical conductivity 3. Plan – insulating heat experiment 4. Investigate – insulation heat experiment 5. Evaluate – insulation heat experiment Use of everyday materials – plastic, wood & metals.	Animals and Humans. 1. The human life cycle 2. Babies & children 3. Adolescence & puberty 4. Adults & the elderly 5. Gestation periods of mammals 6. Gestation periods and lifespan	Lifecycles 1. Life cycles of mammals 2. Life cycles of amphibians 3. Life cycles of insects 4. Life cycles of birds	Reproduction A 1. Sexual reproduction in mammals 2. Reproductive parts in plants 3. Pollination 4. Asexual reproduction 5. Plan – cloning plants 6. Plant – cloning plants	Reversible/irreversible changes 1. Dissolving 2. Separate materials – filtering & sieving 3. Solutions & evaporating 4. Reversible changes 5. Irreversible changes – burning 6. Irreversible changes – acid	Reproduction B 1. Findings – clone plants Interpret Data	
6	Living things and their habitats 1. Conditions for life 2. Group organism 3. Classify animals 4. Classify plants 5. Microorganism 6. Classify microorganism 7. Carl Linnaeus.	Electricity 1. Construct & draw series circuits using symbols. 2. Complete and incomplete circuits 3. Variations within circuits Plan voltage experiment 4. Investigate – voltage experiment 5. Evaluate – voltage experiment. 6.	Sustainability 1. What is renewable energy? 2. Using renewable energy. 1.	Light 2. How we see 3. Light & straight lines 4. Shadow formation 5. Plan – shadow formation 6. Investigate – shadow formation 7. Evaluate – shadow formation 8. Refraction Explore Light	Circulatory System 1. The circulatory system 2. Blood 3. The heart 4. Blood flow in the heart 5. Oxygenated and deoxygenated blood 6. Dissection of the heart	Diet drugs and lifestyle 1. Diet 2. Drugs 3. Cigarettes 4. Plan – heart rate experiment 5. Investigate – heart rate experiment 6. Evaluate – heart rate experiment	Variation 1. Variation 2. Inheritance & characteristics	Adaptations 1. Animal adaptations 2. Plant adaptations 3. Evolution 4. Charles Darwin 5. Natural Selection 6. Darwin's Finches	Fossils 1. Fossil formation 2. Explore fossils 3. Mary Anning	Themed projects 1. Project 1 – Melting points 2. Plan – melting points 3. Investigate – melting points 4. Evaluate – melting points 5. Project 2 – Thermal conductivity 6. Plan – Thermal conductivity 7. Investigate – Thermal Conductivity 8. Evaluate Thermal conductivity

