



### Essential characteristics of a scientist:

- The ability to think independently and raise questions about working scientifically and the knowledge and skills that it brings.
- Confidence and competence in the full range of practical skills, taking the initiative in, for example, planning and carrying out scientific investigations.
- Excellent scientific knowledge and understanding which is demonstrated in written and verbal explanations, solving challenging problems and reporting scientific findings.
- High levels of originality, imagination or innovation in the application of skills.
- The ability to undertake practical work in a variety of contexts, including fieldwork.
- A passion for science and its application in past, present and future technologies.

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Reception</b>	Seasons - Autumn (Welly Walk) Animals: Class (Hedgehogs, Mice and Moles) and their habitats Senses (what are they?)	All about me Changing materials- cooking pumpkin soup Decay	Seasons: Winter and ice Plants (planting seeds and making observations) Lifecycles (butterflies, frogs, plant, hen) <b>Farm trip</b> Light and Dark Changing materials – baking bread & freezing/melting water/ice	People that help up: Vets and doctors Magnets Our bodies: Healthy eating, exercise Seasons: Spring (Spring Walk)	Animals (bears, lions, minibeasts and following children's interests) Dinosaurs/Extinction Habitats (comparing different habitats/countries)	Seasons – summer (beach trip) Sinking and floating Materials (kites making – waterproof etc.) Animals (Sea Creatures) Recycling
<b>Year 1</b>	Seasonal Change: ongoing throughout the year	Human Body	Materials	Healthy Eating (PSHE)	Plants	Animals
<b>Year 2</b>	Everyday Materials	Living Things: animal habitats; food chains	Plants	Plants: what plants need to grow	Animals. including Humans	Living Things in Their Habitats
<b>Year 3</b>	Forces Planning an investigation Setting up simple practical enquiries and fair tests	Magnets Planning an investigation Setting up simple practical enquiries and fair tests	Teeth and Digestion Journey through the digestive system	Rocks Sort and classify	Plants: function of parts; requirements for growth	Shadows and Light
<b>Year 4</b>	Electricity	Sound	Animals , including humans: Bones and Muscles	Animals , including humans: Bones and Muscles	States of Matter	Living things and their habitats
<b>Year 5</b>	Forces: air resistance	Space	Life Cycles: plants and animals Pollination	Animals including humans: human development	Forces (2)	Properties and changes of materials
<b>Year 6</b>	Light	Animals including humans	Living Things and Their Habitats	Evolution and inheritance	Electricity	Electricity and revision