EYFS	Exploring the natural world	Understand the effect of seasons on the natural world	Make observations and draw pictures of plants		
1	**Plants** Grouping plants based on features Deciduous and evergreen spp.	**Animals Inc. Humans** Research into the structure of different animals (fish, amphibians, reptiles, birds & mammals). Senses, body parts, ID, carnivore/herbivore/omnivore	**Everyday Materials** Which material makes the best umbrella/ curtains/ gymnast's leotard etc?	**Seasonal Changes** Observe how weather/day length change over the seasons	
2	**Plants** Do plants with bigger seeds grow taller? What do plants need to grow well (water, light, warmth)? Look at seeds and bulbs.	**Animals Inc. Humans** Observing animals grow over time and needs e.g. water, food, air. Health and exercise	**Uses of Everyday Materials** Identifying and classifying uses of different materials	**Living things and their habitats** Research into animals' diets to create simple food chains. ID living, dead and never alive. ID habitats and microhabitats	
3	**Plants** Observe coloured water travelling up plants stem **Labelled Diagrams- plant parts and flowers and pollination** Nutrients and other requirements- MRS GREN	**Animals Inc. Humans** Identifying and grouping animals with and without skeletons Vertebrates and invertebrates	**Light** Looking for patterns in what happens to shadows when the light source moves or the distance between the light source and the object changes. **Drawings**	**Rocks** Research how fossils are formed	**Forces & Magnets** Cars down a ramp (change angle/surface/size of wheels) **Rulers/ Tape measures** **Tables** Comparing strengths of different magnets
4	**Electricity** Investigate which materials are conductors and which are insulators	**Animals Inc. Humans** Research into teeth of different animals Digestion and food chains	**States of Matter** Observe the evaporation of water from different places in the school linked with temperature (outside, on the teacher's desk, on the radiator, in the fridge). **Thermometers**	**Living things and their habitats** Using and making simple guides or keys to explore and identify local plants and animals **Keys** Climate change- how a changing env. Has impact on plants and animals, classification	**Sound** Finding patterns in the sounds that are made by different objects such as saucepan lids of different sizes or elastic bands of different thicknesses **Data Loggers** **Bar Chart**
5	**Earth & Space** Group planets based on their size/atmosphere/orbit time/ rotational period etc. Modelling proven theories **Labelled scientific diagrams**	**Animals Inc. Humans** Researching gestation periods of different mammals, lifecycles, changes in humans, asexual and sexual reproduction **Bar Charts** Research naturalists e.g. Jane Goodall	**Properties & Changes of Materials** Investigate dissolving of salt/sugar. Patterns in time taken to dissolve with different temperatures/ different sizes of sugar/ stirring or not stirring. **Thermometers / Stopwatches**	**Living things and their habitats** Grow plants from cuttings Observe butterflies hatching from chrysalis.	**Forces** Designing and making a variety of parachutes and carrying out fair tests to determine which designs are the most effective **Stopwatches** **Tables**
6	**Electricity** Does the number of cells affect the brightness of a bulb in the circuit? **Data Logger** **Scatter Graph**	**Animals Inc. Humans** How does your pulse rate change after exercise? **Line Graph** Circulation, kidneys and liver, lifestyle choices e.g healthy eating, exercise, drugs	**Light** Investigating shadows of objects being the same shape as the objects	**Living things and their habitats** Use classification systems and keys to identify some animals and plants in the immediate environment and reasoning for grouping e.g. insects have 6 legs **Classification Keys**	**Evolution & Inheritance** Research into palaeontologists such as Mary Anning and about how Charles Darwin and Alfred Wallace developed their ideas on evolution (nat selection/ variation) Research into proof of evolution