North Baddesley Junior School — Whole School Science Map

	Year 3	Year 4	Year 5	Year 6
AUTUMN	**Animals/ humans**: Animals, including humans with a scientific enquiry into the breakdown of food. **Materials:** Rocks, fossils and soils **Longitudinal Study** (1st Visit) Q. How does the pond and the wildlife that lives there change throughout the year?	**Animals/humans**: Skeletons, bones, joints and muscles. **Materials:** Solids, liquids and gases - changing states. **Longitudinal Study** (1st Visit) Q. How does the animal population change throughout the year within the school grounds?	**Forces:** Air resistance, water resistance, friction, gravity. **Humans**: Digestion, circulation and respiration. **Longitudinal Study** Q. Which birds migrate? When do they migrate? When do they return?	**Sound:** How sound travels, how sound travel can be blocked, how sound can be changed.
SPRING	**Light:** Reflections, shadows, absorbency of light. **Plants:** Seeds, bulbs, germination and roots. **Longitudinal Study**(2nd visit) Q. How does the pond and the wildlife that lives there change throughout the year?	**Materials:** Heating, cooling and separating materials, reversible and irreversible changes. **Living things:** Classifying vertebrates/ invertebrates in the Rainforest, adaptation environmental change, human impact on food chains/webs **Longitudinal Study** (2nd Visit) Q. How does the animal population change throughout the year within the school grounds?	**Earth and Space:** Earth, sun, moon and planets, day and night. **Electricity**: Circuits revised, resistance and conductivity. **Longitudinal Study** (2nd visit) Q. Which birds migrate? When do they migrate? When do they return?	**Light**: How we see, what happens when light hits objects, how light travels **Variation and Evolution & Natural selection:** variation within population, competition, environmental change, adaptation.
SUMMER	**Forces**: Magnetic forces. **Plants:** Parts of the flowering plant, conditions for healthy plant growth. Pollination, seed formation and seed dispersal in flowering plants. Classifying plants. **Longitudinal Study** (3rd Visit) Q. How does the pond and the wildlife that lives there change throughout the year? *To include conclusions*	**Electricity:** Circuits, switches, conductors and insulators. **Longitudinal Study** (3rd visit) Q. How does the animal population change throughout the year within the school grounds? *To include conclusions.*	**Materials:** Reversible and irreversible changes, **Variation and evolution:** Lifecycles and asexual reproduction. **Longitudinal Study:** (3rd visit) Q. Which birds migrate? When do they migrate? When do they return?	**Forces:** mechanisms, levers, pulleys and gears. **Living things:** Reproduction