## Year 5 Science Long Term Plan

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Alchemy Island	Tudors	Tudors	Space	Pharaohs	Pharaohs
Properties and changes of Materials  *compare and group together everyday			Earth and Space	Forces	Living Things and their Habitats
materials on their basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets			*describe the movement of the Earth, and other planets, relative to the Sun in the solar system	*explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object	*describe the difference in the life cycles of a mammal, an amphibian, an insect and a bird
*know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution			*describe the movement of the Moon relative to the Earth  *describe the Sun, Earth and	*identify the effects of air resistance, water resistance and friction, that act between moving	*describe the life process of reproduction in some plants and animals
*use knowledge of solids, liquids and gases to decide how mixtures might be separated (filtering, sieving, evaporating			Moon as approximately spherical bodies  *use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky  Vocabulary Earth, sun, moon, planets,	*recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a	Vocabulary Life cycle, reproduction, sexual reproduction, asexual reproduction, fertilise, metamorphosis, runner, bulb,
comparative and fair uses of everyday ma	give reasons based on evidence from comparative and fair tests, for the particular uses of everyday materials, including netals, woods and plastics			Vocabulary Force, gravity, forcemeter,	cutting, tuber  Animals including Humans
*demonstrate that dis changes of state are	reversible changes		solar system, star, rotate, orbit	Newton, air resistance, water resistance, friction, mechanisms, simple machines	*describe the changes as humans develop to old age
*explain that some character formation of new mat kind of change is not including changes as and the action of acid soda	terials, and that this usually reversible, sociated with burning				Vocabulary Puberty, sexual reproduction, menstruation, sperm, egg, foetus, gestation, life expectancy
Vocabulary Thermal insulator, t electrical insulator, dissolve, solution, s sieve, filter, evapora change, non-revers	electrical conductor, soluble, insoluble, ation, reversible				