

Key Performance Indicators	Year 5 Milestones - Science
Reproduction (Including Plants)	Biology
	I can describe the changes as humans develop from birth to old age.
	I can describe the differences in the life cycles of a mammal, an amphibian, an insect and bird.
	I can describe the life process of reproduction in some plants and animals.
Properties of everyday materials	Chemistry
	I can compare and group together everyday materials based on evidence from comparative and fair tests, including their hardness, solubility, conductivity (electrical and thermal), and response to magnets.
	I can give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.
Pure and Impure Substances	I can understand how some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.
	I can use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.
	I can demonstrate that dissolving, mixing and changes of state are reversible changes.
	I can explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning, oxidation, and the action of acid on bicarbonate of soda.
Forces	Physics
	I can explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
	I can identify the effects of air resistance, water resistance and friction, that act between moving surfaces.
Earth and Space	I can recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.
	I can describe the movement of the Earth relative to the Sun in the solar system.
	I can describe the movement of the Moon relative to the Earth.
	I can describe the Sun, Earth and Moon as approximately spherical bodies. I can use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.