

Science KPI Indicators for 2023-24

Here are the KPI's for Science for the 2023-24 academic year. The table indicates the KPI and the milestones that will ensure students make expected progress within their year group.

Working scientifically is woven into all units, across both key stages, ensuring that all students are competent in investigating science.

Year 5:

KPI	Milestones
Biology	
Plants	Explain how we can grow plants without seeds
	Describe how plants are grown across the year
Life Cycles	Identify common features/differences in animal life cycles
	Identify common characteristics of mammals, amphibians, birds and insects
	Provide examples of how humans help endangered species
Reproduction	Label the parts of a flowering plant and describe the processes of pollination and fertilisation in plants
	Describe asexual reproduction in plants
	Identify similarities and differences in the process of reproduction in mammals, amphibians, birds and insects
	Identify the main stages in human life cycles and the process of puberty in boys and girls
Chemistry	
Materials	Are able to group materials based on their properties
	Provide examples of the properties of solids
	Describe how to test the viscosity of liquids
	Describe the properties of metals and plastics
Everyday Materials	Plan and investigate a fair test on plastic carrier bags
	Explain how a cool bag affects temperature of food
All Change	Can describe reversible & irreversible reactions
	Describe how a candle does both reversible & irreversible reactions

Physics	
Forces	Use a newton meter correctly
	Describe how forces make things change directions and use force arrows correctly
	Plan an investigation using parachutes to include a prediction
	Describe water resistance and upthrust correctly
	Describe how to use levers, pulleys and gears to move objects
The Earth and Beyond	Describe how shadows are formed
	Describe how seasons occur throughout the year
	Describe the phases of the moon
	Identify the different planets in the Solar System