



# SCIENCE CURRICULUM INTENT

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Science is the study of every natural phenomenon; it explains how the universe and everything within it works. Science has changed all our lives: from the advent of the information age to the development of vaccinations, science is vital to the world's future prosperity. New technological developments are the outcome of societies with a fundamental understanding of scientific knowledge, processes and methods. Much of the global economy is tied to technology and innovation, both of which are founded on a base of strong scientific understanding. Critical thinking, practiced in the study of science, enables populations to understand the world around them, and to filter accurate information from both traditional and social media. People who can think more powerfully about the information available to them are able to make better, more informed decisions in their lives. This promotes wellbeing, safety, healthy lifestyles, secure employment and prosperity. As the world moves to tackle global problems, from global warming to medical enhancement or food availability, science is at the very core of every solution.

Students at Swanlea experience a broad, challenging and fascinating curriculum with topics that engage and promote a life-long love of scientific learning. As students learn about biology, chemistry, and physics they are able to recognise the power of rational explanation, and to develop a sense of curiosity and excitement about natural phenomena. They understand how science can be used to explain what is occurring, predict how things will behave and analyse causes. As students develop their proficiency they also grow in terms of confidence and resilience. They become independent learners, critical thinkers and confident that they can deal with the unknown, all high-value skills which last a lifetime, regardless of whether students move on to science-based careers.