



MATHEMATICS

CURRICULUM INTENT

Mathematics is the cradle of all creation, it is the bedrock of science, technology and engineering. The international language of Mathematics is integral to cultivating successful, cohesive and forward-thinking societies in a global community. Maths provides the toolkit for individuals and groups to think critically, strategically and analytically; developing our problem-solving skills & approaches whilst supporting us in all areas of daily life and routine. Since time immemorial, from Pythagoras to Turing, mathematicians have tackled and solved many of life's most challenging problems, leading to the technological advancement we enjoy today. Alongside the natural sciences, Mathematics is the keystone to Economics, Computer Science, Geography, Psychology, Sociology and many more; without which experts from a wide range of disciplines would struggle to model, process and provide meaning to their research. Proficient mathematicians possess the power of reasoning, creativity, confidence, abstract and spatial thinking, and effective communication skills – all traits essential to solving the world's most pertinent problems.

Through a rigorous Mathematics curriculum our young people will develop into highly numerate individuals, with the soft skills necessary to become a productive member of society, namely: confidence, resilience, and independence. Our curriculum will continue to promote aspiration, ambition and determination within our learners, ensuring all students are prepared to take advantage of opportunities and manage the challenges of life after education. The Swanlea Maths department aims to enhance the social confidence of our young people by developing their oracy skills through classroom discussions. Alongside this we aim to foster cohorts of students that are tenacious problem solvers with a keen ability to think critically, thus preparing them for a lifetime of success in the workplace and socially.