

**SCIENCE AND TECHNOLOGY DEPARTMENT INTENT**  
***Discover, Develop, Rejoice***



*“The scientist is not a person who gives the right answers, he’s one who asks the right questions.” — Claude Levi-Strauss*

The Science curriculum at St Cecilia’s moulds our pupils into scientifically literate citizens, with knowledge and conceptual understanding of the specific disciplines of biology, chemistry and physics and how they are interconnected with not only each other but the world around them.

The curriculum is characterised by key themes which are revisited regularly throughout pupils’ learning journey to provide a five-year exploration of essential aspects of the knowledge, methods, processes and uses of science to encourage deep learning and knowledge retention.

Pupils are encouraged to think logically and critical in order to solve problems drawing upon mathematical skills, developed alongside the mathematics curriculum, and a fluency with both subject specific and academic vocabulary which are nurtured through explicit teaching and immersion.

Pupils are provided opportunities to collaborate with others developing not only their investigative skills but also personal qualities such as teamwork, communication, leadership and confidence, recognising how great advances in science evolved over time by members of the scientific community sharing ideas and building on each other’s successes.

Pupils are taught to appreciate the wonder and awe of the world around them and how science can be used to explain how these things happen and predict when they happen, always asking questions and seeking answers. The curriculum encourages pupils never to take ‘facts’ at face value analysing patterns and causes, using reliable data and scientific reasoning to draw their own conclusions.

The pupils learn about ethical decisions, considering whether we *should* do something just because we *can*, recognising the potential implications, positive and negative, of developing technologies. Above all pupils should be excited for the potential future of where science could lead us and how it can be used for the greater good of all.

*“The Science of today is the technology of tomorrow” — Edward Teller*