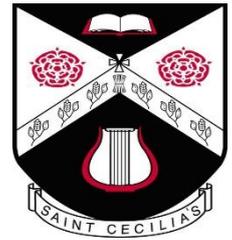**St Cecilia's RC High School**
Curriculum Delivery

Discover, Develop, Rejoice

Computer Science Curriculum Intent

Computers are now part of everyday life and, for most of us, technology is essential to our lives, at home and at work. We all need a high level of digital literacy to thrive in our ever-changing world. We want to model and educate our pupils on how to use it positively, responsibly and safely.

Pupils will learn to use technology to be creators of content and not just passive consumers. They will become more discerning in how they judge online content, using tools and techniques to evaluate the material and its source.

Pupils will develop their computational thinking skills through tacking a range of problems in a wide variety of contexts. They will develop programming skills by using both block-based (visual) and text-based programming environments.

Pupils will study how computers work, how data is encoded and how hardware and software work together. They will develop their creativity through creating digital content including using image and sound editing software.

The Computing Curriculum Area schemes and lessons build on theory, revisit past learning and support the retrieval of information and mastery of key skills. **Rosenshine's** 10 principles, cognitive load theory and growth mind-set will underpin daily practice to help student's gain the most from their experience. Targeted questioning, verbal dialogue with students and theory questions will be consistently used by teaching staff and consolidated by practical work.

Imagery is used heavily in lessons and lengthy descriptions of processes cut to a minimum to embed the fundamentals and not to overload pupils. Strategies such as our developed objective slides based on cognitive load theory is used in all lessons to enhance pupil's awareness of learning. Metacognition is interwoven throughout lessons and informs students of their learning and increase awareness of recall and retrieval of information. Visual aids are used to stimulate independent thinking and anchor key points and terminology. These are currently being developed and will be used throughout schemes.

Curriculum Principles

We prioritise depth of knowledge. The faculty intend to prioritise mastery of skills and focus on the skills with common tools, equipment and media. The design principles that underpin all our teaching as well as cultural understanding, are taught in depth so that students can interpret them in their own way fitting them to different contexts.

We intend to address key terminology and oracy through planned lesson objectives to support the increased rigour in exam questions. Current articles and technological advances to form starter activities through the reading and discussion of current issues. E.g. magazine articles, online news websites. Reading will be in each and every lesson so that pupil's gain confidence with literacy, communication and oracy.

We intend to demand the highest level of work and verbal responses by students constantly referencing standards and life after St Cecilia's. These life skills will be promoted within lessons and enhance the learning of the pupils.

We use opportunities for cross-curricular work to develop transferable skills and to allow pupils to see the links across a range of areas.

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