Digital Literacy & Computer Science Intent

"Equipping young people for a technological world"

Our Computing curriculum at Royton and Crompton E-ACT Academy will provide our students with the life-skills that will enable them to embrace and utilise new technology in a socially responsible and safe way in order to flourish. We want our students to be creators not consumers and our broad curriculum encompassing computer science, information technology and digital literacy reflects this. We want our students to understand that there is always a choice when using technology and as a faculty, we recognise that the best prevention for a lot of issues we currently see with technology/social media is through education.

Students are encouraged to enjoy and value the curriculum we deliver. We encourage our students to constantly ask the why behind their learning and not just the how .We want learners to discuss, reflect and appreciate the impact computing has on their learning, development and wellbeing, through the deepening of understanding and encouraging debate.

Our students will be able to operate in the 21st century workplace through the broad and balanced curriculum we offer. Students will encompass a range of technological disciplinary knowledge from abstraction and algorithmic thinking to the creation of digital graphics. Students will be exposed to an array of career pathways within the subject field from graphic design and media production to computer programmers and network engineers. Students will be immersed in mock scenarios of real-world situations to simulate the application of their substantive knowledge and skills within a range of career paths.

Students will become autonomous, independent users of computing technologies, gaining confidence as they study the curriculum. Not only will students be digitally literate and competent end-users of technology, but through our curriculum, they will experience creativity, resilience, problem-solving and critical thinking skills. Students will have a breadth of experience from e-safety and fake news to the impact of image editing. Through this substantive knowledge, they will develop their understanding of themselves as individuals within their community but also as members of a wider global community and as responsible digital citizens.
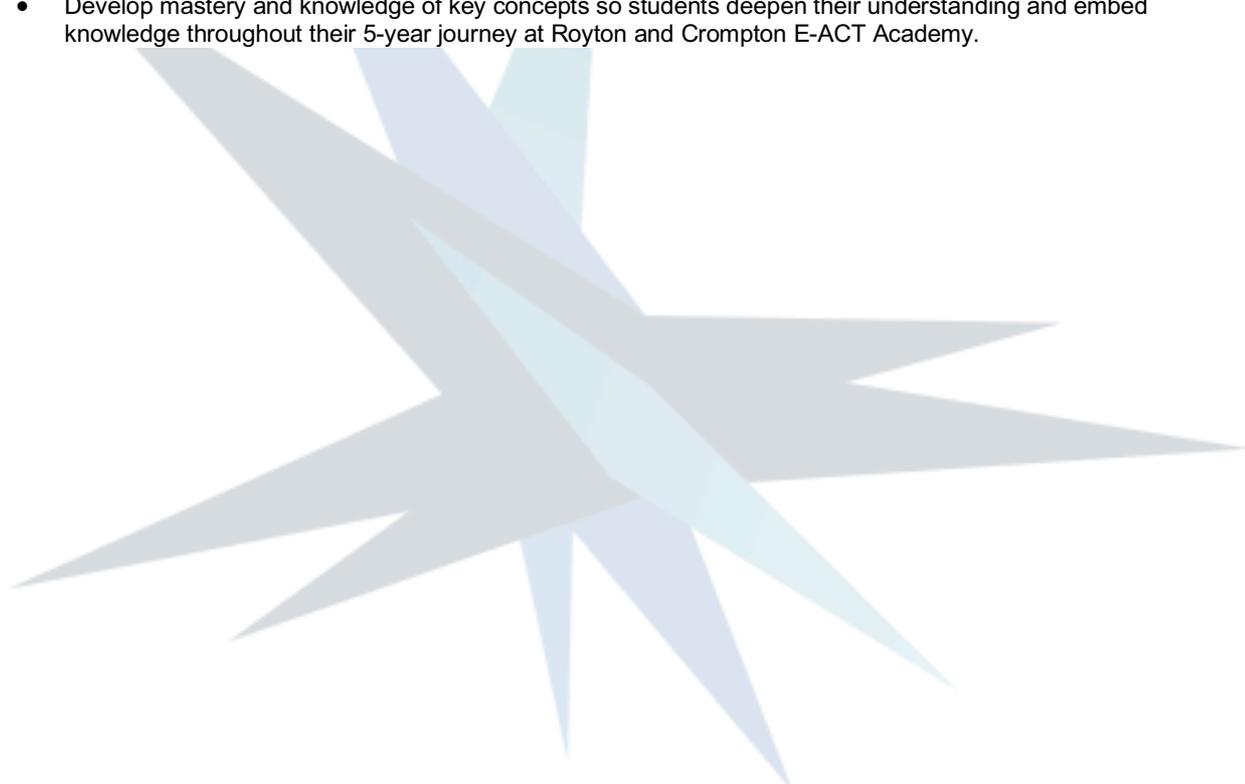
We deliver a well sequenced, engaging curriculum where students become resilient learners. We equip them with the core knowledge linked with the concepts of **Theory of Computing, Design, Create and Evaluate**. The core concepts are strengthened and deepened throughout Key Stage 3 in to Key Stage 4, simulating the system life cycle used within industry.

Our pedagogy and curriculum will allow students to:

- Be ambitious and confident learners who are fully engaged with their learning developing resilience when faced with new challenges.
- Develop effective programming skills, think computationally and become effective problem solvers and logical thinkers.
- Have memorable experiences of digital literacy through engagement and enjoyment of the subject and through enrichment and extra-curricular opportunities such as the digital literacy club and coding clubs.
- Know the importance of British values through digital literacy and the learning of ethical, legal, moral and cultural aspects of Computer Science. They will know how to stay safe in a digital age.
- Develop mastery and knowledge of key concepts so students deepen their understanding and embed knowledge throughout their 5-year journey at Royton and Crompton E-ACT Academy.

Opening minds, opening doors.

Honesty • Excellence • Aspiration