MOOR PARK HIGH SCHOOL: CURRICULUM

KS4 Long Term Planning

KS4 Course: Core IT Skills

KS4 INTENT: This course is structured to provide Key Stage Four students with essential IT competencies as mandated by the National Curriculum for Computer Science. The program aims to deliver a thorough understanding of fundamental IT concepts, practical skills, and problem-solving strategies necessary for academic achievement and future professional opportunities.

Curriculum Area: Arts, Performance and Technology (Computing)

Year 10 and 11	Academic Year 2025 - 2026
Connections to prior learning	Throughout Key Stage Three, students have received a high-quality curriculum that exceeds the National Curriculum requirements and has equipped our students to use computational thinking and creativity to understand and change the world. Students are responsible, competent and creative users of information and communication technology and have completed different areas and topics related to both computer science and digital literacy. Throughout this unit of work, these skills will be built up to ensure students become digitally literate ready for their future studies and careers.
Knowledge	Students will develop their capability, creativity, and knowledge of IT, Digital Media, and Computer Science through project-based learning. They will apply problem-solving, design, and computational thinking skills to their projects. Additionally, they will explore how technology evolves, including new methods to protect online privacy and how to report and identify various concerns

Skills	- Students will look at the impact of technology (both positively and negatively) – **NC Strand 3 (Changes in Tech, Identify and Report risks)**
	    o Students will look at the risks of Artificial Intelligence
	    o Risks of Scams and Cyber Threats
	    o Students will understand how to mitigate these risks and report these concerns - **NC Strand 3 (Changes in Tech, Identify and Report risks)**
	- Digital Skills - **Social Media & Managing Finances**
	    o Students will delve into Microsoft Excel and its functions.
	    o Use spreadsheets to model income and expenditure
	    o Discuss healthy screen time habits - **NC Strand 2 – Analytical, Problem Solving and Computational Thinking skills are being developed and applied**
	- Digital Skills **-** Understand how to use social media responsibly
	    o Understand how to use social media responsibly
	    o Look at ways you can revise effectively and efficiently using digital skills
	    o Create, share and collaborate on work online
	    o Control access effectively via sharing settings **NC Strand 3 (Changes in Tech, Identify and Report risks) NC2 develop and apply their analytic, problem solving, design, and computational thinking skills.**
	- **Computer Thinking Session –** Basic Computer Programming **NC Strand 1 – develop their capability, creativity and knowledge in CS, DM and IT and NC2 develop and apply their analytic, problem solving, design, and computational thinking skills.**
	    o Students will complete basic programming activities – Coding, Strings and Variables

Assessment	Pupils will be required to complete a portfolio of tasks throughout the project, alongside completing a pre and post evaluation of their IT Skills to measure progress. Completion of the portfolio will lead to the completion of the school designed program approved and supported by Northrop Grumman
Numeracy and Literacy	**Numeracy –** Numeracy skills will be focused on when inserting data, writing formulas and performing calculations while using Microsoft Excel. **Literacy -** Key words will be displayed and used throughout the lessons. Students will focus on their literacy skills when completing written work on the

	computers.
CIAG	A guest from the Lancashire National Cyber Security Unit will be invited in to discuss Cyber Crime, what their job entails linking into understanding how changes in technology affect safety, including the new methods to protect their online privacy.