MAGHULL HIGH SCHOOL – CURRICULUM MAP

HALF TERM 2.1 Jan - Feb	Lessons 1 - 6	Lesson 7 - 8	Lessons 9 - 10	Lessons 11 - 15
TOPIC (S)	Producing robust programs	Revision and Retrieval	Producing robust programs Assessment and DIRT	Revision and Retrieval
Knowledge & Skills development	Input validation Defensive Design considerations Maintainability and refining algorithms Types of testing and errors Suitable test data	Gain experience in answering computer system questions for component J277/01 and computational thinking, algorithms and programming questions for component J277/02	Demonstration of theory learnt in the unit of study	Gain experience in answering computer system questions for component J277/01 and computational thinking, algorithms and programming questions for component J277/02
Assessment / Feedback Opportunities	Classroom activity - Class Discussion - Questioning pupils – verbal feedback	Classroom activity - Class Discussion - Questioning pupils – verbal feedback	Written Assessment	Classroom activity - Class Discussion - Questioning pupils – verbal feedback
Cultural Capital	Problem solving Impact of technology on the world			
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	• Listening to others • Responding suitable in discussions • Taking part in group activates			
Reading opportunities	Instructional Reading Key word Identification Decomposition and Abstraction			
Key Vocabulary	Defensive design, Anticipating misuse, Authentication, Input validation, Maintainability, Naming conventions, Indentation, Commenting, Testing, Iterative testing, Final/terminal testing, Syntax error, Logical error, Test data, Test data: Normal, Test data: Boundary, Test data: Invalid, Test data: Erroneous			
Digital Literacy	Use of technology Understanding of how technology works			
Careers	Computer Scientist – R&D – Software Engineer – Cyber Security			