



## MAGHULL HIGH SCHOOL – CURRICULUM MAP

HALF TERM 1.2 Nov - Dec	Week 8-11	Week 12-13	Week 14-15
TOPIC (S)	Project	2.6 Programming techniques	Project
Knowledge & Skills development	Students will independently work on their project – development stage	What are the 3 basic programming constructs? What is the difference between local and global variables and when should they be used? What is recursion and how does it compare to using an iterative approach? What is the difference between procedures and functions, and what is the difference between passing parameters by value and by reference? What are the features of an IDE?	Students will independently work on their project – development stage
Assessment / Feedback Opportunities	Questioning pupils – verbal feedback	Classroom activity - Class Discussion - Questioning pupils – verbal feedback – exam questions	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)	<ul style="list-style-type: none"> <li>• Listening to others</li> <li>• Responding suitable in discussions</li> <li>• Taking part in group activities</li> </ul>		
Reading opportunities	Instructional Reading Key word Identification Structure and Interpretation of Computer Programs Design Patterns: Elements of Reusable Object-Oriented Software		
Key Vocabulary	Sequence, Iteration, Branching / Selection, Recursion, Global variable, Local variable, Modularity, Functions, Procedures, Parameters, Parameter passing, Parameter passing by value, Parameter passing by reference, IDE, Debugging		
Digital Literacy	Use of technology Understanding of how technology works		
Careers	Software Engineer – Cyber Security – Multimedia programmer – Systems analyst – Games developer		