

LONG TERM PLANS

Year Overview (Computing – Year 10 GCSE Computing)

ESS Faculty	
YEAR 10 GCSE Computer Science	
Autumn term	
Half term 1	Half term 2
<p>Unit 1 (A451) – Theory/exam unit (2 lessons/fortnight)</p> <p>Computer hardware:</p> <ul style="list-style-type: none"> CPU Binary logic Memory I/O devices Secondary storage <p>Unit3 (A453) – Programming project (3 lessons/fortnight)</p>	<p>Unit 1 (A451) – Theory/exam unit (2 lessons/fortnight)</p> <p>Software:</p> <ul style="list-style-type: none"> user interface memory management peripheral management multi-tasking and security Computer security Disk organisation System maintenance Clean-up <p>Representation of data in computer systems:</p> <ul style="list-style-type: none"> Units Number Character Images Sound <p>Unit3 (A453) – Programming project (3 lessons/fortnight)</p>
Spring term	
Half term 1	Half term 2
<p>Unit 1 (A451) – Theory/exam unit (2 lessons/fortnight)</p> <p>Databases:</p> <ul style="list-style-type: none"> The database concept DBMS Relational databases <p>Unit3 (A453) – Programming project (3 lessons/fortnight)</p>	<p>Unit 1 (A451) – Theory/exam unit (2 lessons/fortnight)</p> <p>Computer communications and networking:</p> <ul style="list-style-type: none"> Networks The Internet <p>Programming:</p> <ul style="list-style-type: none"> Algorithms Programming languages Control flow and imperative languages Handling data in algorithms Testing

	Unit3 (A453) – Programming project (3 lessons/fortnight)
Summer term	
Half term 1	Half term 2
Unit 1 (A451) – Theory/exam unit (2 lessons/fortnight) Programming: Algorithms Programming languages Control flow and imperative languages Handling data in algorithms Testing Unit3 (A453) – Programming project (3 lessons/fortnight)	Unit 1 (A451) – Theory/exam unit (2 lessons/fortnight) – CONSOLIDATION of topics covered Unit3 (A453) – Programming project (3 lessons/fortnight)