

YEAR 11 CURRICULUM INFORMATION - COMPUTING

	Spring 1		Spring 2
What will students be learning?	Topic 2.3 Producing robust programs Students will learn about the following: <ul style="list-style-type: none"> Defensive design considerations Input validation Maintainability The purpose and types of testing Identify syntax and logic errors Selecting and using suitable test data Refining algorithms Topic 2.5 Programming languages and Integrated Development Environments Students will learn about the following: - <ul style="list-style-type: none"> Characteristics and purpose of different levels of programming language The purpose of translators The characteristics of a compiler and an interpreter Common tools and facilities available in an Integrated Development Environment (IDE) 		Students will be revising the content within Unit 2 Computational thinking, algorithms, programming. <ul style="list-style-type: none"> 2.1 Algorithms 2.2 Programming fundamentals 2.3 Producing robust programs. 2.4 Boolean logic 2.5 Programming languages and Integrated Development Environments
How will students be assessed?	Students will be assessed on each main topic in the specification with a written test based on exam style questions.		
Literacy – What keywords will be taught?	<ul style="list-style-type: none"> Translator Compiler Interpreter Error diagnostics 	<ul style="list-style-type: none"> Run-time environment Authentication Erroneous Syntax 	
What employability skills are being developed?	Logical reasoning, numeracy, information use, thinking skills, self-management, written communication.		
Wider Curriculum Links?	Maths - use of different number systems, binary and hexadecimal conversions.		
What useful websites are there for this topic?	GCSE Computer Science - OCR - BBC Bitesize Teach-ict.com for information, quizzes, videos, exam questions for each topic (username and password for this website is provided to students by their teacher) GCSE Computer Science 9-1 J277 OCR syllabus (teach-ict.com) Videos on each topic of the course - GCSE (J277): OCR Specification Order - YouTube		

What wider reading could be done for this topic?	Course information can be found on this website GCSE - Computer Science (9-1) - J277 (from 2020) - OCR
What else can students be doing independently to develop their understanding of this topic?	Go onto Seneca Learning at complete the OCR Computer Science course. https://senecalearning.com/ Complete the revision tasks on the website eRevision