

SUBJECT		YEAR	TERM
Computer Science (OCR)		11	1
UNIT			
Programming Fundamentals			
INTENT			
PRIOR LEARNING (TOPIC) – Pupils will have covered some programming fundamentals throughout Year 7 to 9.			
At the core of all programming are some key fundamental concepts. This unit aims to introduce these and get pupils comfortable using them in simple programs. This includes the use of variables, sequence, iteration and selection.			Specification Points: This unit covers points 2.2.1 to 2.2.2.
FUTURE LEARNING (TOPIC): Advanced Programming			
IMPLEMENTATION		IMPACT	
Throughout the unit pupils will cover: <ul style="list-style-type: none">• The use of inputs, outputs, variables and constants.• The use of sequence, selection and iteration.• The use of operators including MOD and DIV.• The use of different data types such as integer, real, string and Boolean.• How to use simple string manipulation techniques.	Assessment: Pupils will sit a 40 mark in-lesson assessment at the end of the unit, the score from which will be translated into a 9-1 style grading. In addition to this, pupils will complete regular exam style questions both during lesson and as part of homework tasks.		
HOW CAN PARENTS HELP AT HOME?			
All course materials are available via Firefly. In the build-up to the assessment, parents can help by supporting their child’s revision. This can include testing them using flash cards or simply getting them to explain topics to you.			
HELPFUL READING/FURTHER DISCUSSION			
READING/EXTRA-LEARNING There are an enormous number of online courses and tutorials to help pupils develop their computer science skills further. Visit the Next Steps section of the Computing department’s Firefly page for more details.	CAREERS The programming skills learnt in this unit lead perfectly into a wide range of careers including software developer.	WIDER SKILLS Digital Literacy Numeracy Problem Solving Resilience	
VOCABULARY			
Input, Output, Variable, Constant, Assignment, Sequence, Selection, IF-ELSE, Switch Case, Iteration, Condition, Count, MOD, DIV, Casting, Integer, Boolean, Real, String, Char.			