/Computing@Balcarras_



SUBJECT		YEAR	TERM
Computer Science (OCR)		11	2
UNIT			
Boolean Logic			
INTENT			
PRIOR LEARNING (TOPIC) – Programming Fundamentals & Representing Data			
At a core level, all computer systems are built out of simple components called logic gates. In this unit pupils will look at these fundamental gates and how they can be combined to create simple circuits. This includes representing simple circuits as logic diagrams and truth tables.		ponents called es and how they nting simple	Specification Points: This unit covers point 2.4.1
FUTURE LEARNING (TOPIC): Boolean Algebra in A-Level Computer Science			
IMPLEMENTATION IMPACT			ACT
 Throughout the unit pupils will cover: Representing AND OR and NOT gates as logic diagrams, truth tables and Boolean Algebra expressions. Combining AND OR and NOT gates to create solutions to problems. Completing complex truth tables for logic circuit 	Assessme assessme which wi In addition style que ss. homewo	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 program unit lead perion of careers incondeveloper.	ming skills learnt in t fectly into a wide rar luding software	WIDER SKILLS Digital Literacy Numeracy Problem Solving Resilience
VOCABULARY AND, OR, NOT, Truth Table, Circuit, Boolean Algebra			