/Computing@Balcarras_



SUBJECT		YEAR		TERM	
Computer Science (OCR)		10		1	
UNIT					
Representing Data					
INTENT					
PRIOR LEARNING (TOPIC) Pupils will have some a requirement for the topic.	basic knowled	lge from Year 9 lesso	ons, howe	ver, this is not	
At a base level, everything in computer science comes back to binary numbers. In this unit pupils will learn to understand what these strings of 0s and 1s actually mean! This includes interpreting binary values as numbers, images, sound and text.			This unit	ation Points: covers points ough to 1.2.5.	
FUTURE LEARNING (TOPIC): Boolean Algebra					
IMPLEMENTATION IMPACT					
Common units of storage used in binary.assessment at the eHow to convert numbers between binary, denary and hexadecimal.which will be translaHow to perform binary addition.In addition to this, p		II be translated into on to this, pupils will estions both during l	d of the unit, the score from ed into a 9-1 style grading. pils will complete regular exam during lesson and as part of		
HOW CAN PARENTS HELP AT HOME? All course materials are available via Firefly. In the supporting their child's revision. This can include t explain topics to you. HELPFUL READING/FURTHER DISCUSSION	esting them u	•			
READING/EXTRA-LEARNING	CAREERS		W	DER SKILLS	
There are an enormous number of online courses and tutorials to help pupils develop their computer science skills further.	This unit could lead into a wide range of careers including electri engineering and cryptography.		Dig cal Nu	gital Literacy meracy silience	
Visit the Next Steps section of the Computing department's Firefly page for more details.					
VOCABULARY Binary, Denary, Hexadecimal, bit, nibble, byte, KB, colour depth, pixel, sample rate, bit depth, compre			Unicode,	resolution,	