Home-School Learning Collaboration – Computing



Topics in this cycle: Data representation	Taught: Spring1	Year Group: 9
Key knowledge/concepts to be learnt ('Tell me about')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning
How many bits is a smartphone	dal? denary and other number systems? P: What about a Personal Computer? at difference does that make to its function? mage?	Video clips What is the point of hexadecimal? https://www.youtube.com/watch?v=ViRR7qoeMpU Image quality https://www.youtube.com/watch?v=Jcgg7jq1W3o Tools Binary converter https://www.rapidtables.com/convert/number/decimal-to-binary.html

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Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?
Bit	A 'bit' is a Binary Digit. A Binary Digit is the smallest unit of data a computer can store. Each 'bit' is represented using either a 1 (true) or 0 (false).	Optional: Research and write a 300 word article on the differences between digital and 35mm photographs. If you
Byte	8 bits.	want, you could try talking to an older student, who studies
Colour depth	Many images need to use colours. To add colour, more bits are required for each pixel. The number of bits determines the range of colours. This is known as an image's colour depth.	GCSE Photography. Mr Daniel (in DT) might also be able to help.
Pixel	The smallest element of an image. Each pixel has a specific colour, represented by a specific binary code.	May/June assessment as part of Assessment Week: 50 marks 3 sections. Section A is short answers, Sections B and C require longer answers for unstructured questions
		Family Learning Opportunities
		Research the following with a parent/carer: What was the first image ever digitised? What was the first image ever sent via email? What is a meme and what is the most famous 'meme'?