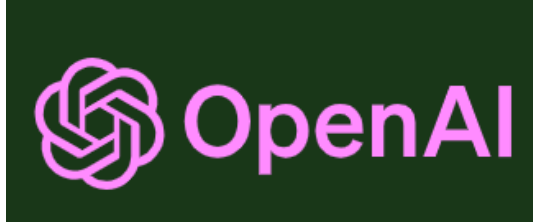


Home-School Learning Collaboration – Computing

Topics in this cycle: Computer basics	Taught: Spring1	Year Group: 7
Key knowledge/concepts to be learnt ('Tell me about....')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning
<ul style="list-style-type: none">• What is the difference between hardware and software? What are storage devices? What are input and output devices?• What is binary code? How can we convert between binary and denary?• What is data storage? What is the difference between optical storage, magnetic storage and flash memory? What is cloud storage?• What are some of the newest technologies in computers? What is RFID? What is robotics? What is artificial intelligence?		Video clips New technologies https://www.youtube.com/watch?v=vbNHCn2gHQ4 A.I. https://www.youtube.com/watch?v=Hdd9tcs6Jwk Binary numbers https://www.youtube.com/watch?v=kcTwu6TFZ08

Home-School Learning Collaboration – Computing

Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?
Hardware	Objects that you can touch, like a Music CD	<p>Optional: Extended writing – Write an article on artificial intelligence. Then ask ChatGPT (see below) to improve it. Does AI make your article any better?</p> <p>May/June assessment as part of Assessment Week:</p> <ul style="list-style-type: none"> • 50 marks • 3 sections. Section A is short answers, Sections B and C require longer answers for unstructured questions
Software	You cannot 'touch' software. Software is the programs that run on a computer, like the music playing on a CD.	
Input device	An input device is anything can be used to enter data into a computer.	
Output device	An output device is a piece of computer hardware used display or output data which has been processed or stored in a computer.	
Storage device	A storage device is used to permanently record or store data.	
CPU	Central processing unit. The modern CPU usually contains a number of microprocessors (multi-core). It is often described as the 'brain' of the computer	<p>Family Learning Opportunities</p> <p>Explore ChatGPT with a parent/carer You can make a free account at https://openai.com/blog/chatgpt</p> <p>Try asking ChatGPT questions. Can you tell that it is not a human answering the questions? What limitations do you think ChatGPT has? Do you think AI will be a good thing or a bad thing for society?</p> 
Binary	Binary code is the only thing the CPU understands. Everything you put into a computer is converted to Binary code for the CPU to process. Binary code is made up of 1's and 0's. The computer then translates these 1's and 0's into everything else.	