Unit: Computer Components

	Subject: Computing		
	Year group: 7 & 8	Unit: Computer Components	Date (from and to): 22nd February 2021 – 26th March 2021
Wk.	Big question / concept: **What is a computer?**	Learning intentions: Learners must be able to:	Resources
			Offline: / Online including links on how to access these:
1	What is a computer? History of computers.	• Students understand what the primary purpose of a computer is. • Students can identify how the computer has evolved over time.	• PowerPoint presentation with theory about the topic. Revision notes, Flashcards and glossary. • Slide 4,5,6, , 8	What is a computer. https://www.bbc.co.uk/bitesize/guides/zxb72hv/revision/1 Page 1 What is a computer https://www.khanacademy.org/computing/computers-and-internet/xcae6f4a7ff015e7d:computers/xcae6f4a7ff015e7d:introducing-computers/a/what-is-a-computer What is a computer. https://www.youtube.com/watch?v=Cu3R5it4cQs History of computers https://www.youtube.com/watch?v=O5nskjZ_GoI Revolution of PC https://www.youtube.com/watch?v=M5BZou6C01w&list=PL8dPuuaLjXtNlUrzyH5r6jN9ulIgZBpdo&index=26
2 AND 3	How a computer works Input process output The application of computers. How does	• Students can explain how a computer works using the basic input process output model.	• PowerPoint presentation with theory about the topic. Revision	https://www.khanacademy.org/computing/computers-and-internet/xcae6f4a7ff015e7d:computers/xcae6f4a7ff015e7d:introducing-computers/v/khan-academy-and-codeorg-what-makes-a-computer-a-computer

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	translate to real world examples? Simulations	• Students can identify various types of computers based on this model. Scenarios where computers are used.	notes, Flashcards and glossary. Slide 9, 10, 11, 15, 16, 17, 18, 19,	How computers work youtube videos https://www.youtube.com/watch?v=QZwneRb-zqA https://www.youtube.com/watch?v=OAx_6-wdslM https://www.youtube.com/watch?v=mCq8-xTH7jA&list=PLzdnOPI1iJNcsRwJhvksEo1tJqjIqWbN-&index=2 https://www.youtube.com/watch?v=USCBCmwMCDA&list=PLzdnOPI1iJNcsRwJhvksEo1tJqjIqWbN-&index=3 https://www.youtube.com/watch?v=DKGZlaPlVLY&list=PLzdnOPI1iJNcsRwJhvksEo1tJqjIqWbN-&index=5 https://www.youtube.com/watch?v=xnyFYiK2rSY&list=PLzdnOPI1iJNcsRwJhvksEo1tJqjIqWbN-&index=6 Self driving cars ethical issues https://www.youtube.com/watch?v=ixIoDYVfKA0
4	Computer components, Artificial intelligence Turing test,	• Students explain what AI is and how this is used in everyday life. How has AI evolved and what is its purpose • Students understand what the turing test is	12, 13, 14, 20, 21	Inside a computer https://www.youtube.com/watch?v=HB4I2CgkcCo Inside your computer https://www.youtube.com/watch?v=AkFi90lZmXA Turing test https://www.youtube.com/watch?v=3wLqsRLvV-c Alan Turing https://www.youtube.com/watch?v=7TycxwFmdB0&list=PL8dPuuaLjXtNlUrzyH5r6jN9ulIgZBpdo&index=16

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| 5 | Moore's law, Augemented reality | • Students understand Moore's law Students explain what augmented reality is. Its place in the future. How this has come about and what can be done with this technology. | 22, 23 | |