Northolt High School
Scheme of Learning

Committed to excellence

Year group: 10	Term: 1	Unit duration: 6 weeks	Number of lessons: 6	Unit title: **Storage - Calculating File Sizes**
Assessment outcome: To understand how file sizes are calculated and how computers store information			**Fertile question? What is a Gigabyte and how many do I need?**	

Key skills/concepts/knowledge that students should cover	**Start RAG**	**End RAG**	**Literacy. Key vocabulary/subject terminology that students should cover**
Storage type capacities - how different storage types can hold different amounts of information **Storage units - how do we measure the space in a computer?** **Calculating the size of images in Binary** **Calculating the size of audio files in Binary** **Transfer speeds - how quickly can we move files in a computer** **Cloud Storage - how network speed affects file sizes**			**Kilobits** **Megabits** **Gigabits** **Kbps** **Mbps** **Gbps** **Bit depth** **Frequency** **Resolution** **Colour depth** **Sample rate** **Refresh rate**
Stretch. Key skills/concepts/knowledge that students should cover **Calculate how many MP3 music files you could have downloaded in one month based on your data usage on your phone. Why do modern devices use so much network data?**			**Suggested materials teachers could/should use** **TeachICT** **Computer Science Powerpoints/Worksheets** **Key home learning tasks students should complete to be set in lessons.**

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