Year 8 Computer Science

Below are the topic areas covered over this academic year. Please use the resources to help improve and embed the learning you have completed in school.

Autumn Term	
Topic Area	**Resources**
Cyber Security Threats	Online dangers - Online safety - KS3 Computer Science Revision - BBC Bitesize
Phishing	Spam email and phishing - eSafety - KS3 ICT Revision - BBC Bitesize
Malware	Malware and security - eSafety - KS3 ICT Revision - BBC Bitesize
Binary and Denary Conversions	https://youtu.be/tNifR_nudLI https://studio.youtube.com/video/tNifR_nudLI/edit

Spring Term	
Topic Area	**Resources**
Python Turtle	https://www.bbc.co.uk/bitesize/guides/zwmbgk7/revision/1
Iteration	https://www.bbc.co.uk/bitesize/guides/z3khpv4/revision/1
Selection	https://www.bbc.co.uk/bitesize/guides/z2p9kqt/revision/1
Data Types	Data types - Implementation: Data types and structures - National 5 Computing Science Revision - BBC Bitesize
Blender Animation	https://www.thenational.academy/teachers/programmes/computing-secondary-ks3-l/units/animations-fd00/lessons

Summer Term	
Topic Area	**Resources**
Networking General	What is a network? - Introduction to networks - KS3 Computer Science Revision - BBC Bitesize
Networks – Hardware	Local area network hardware - Wired and wireless networks - OCR - GCSE Computer Science Revision - OCR - BBC Bitesize
Network Topologies - Star	Star networks - Networks - Edexcel - GCSE Computer Science Revision - Edexcel - BBC Bitesize
Image representation	Representing images - Fundamentals of data representation - AQA - GCSE Computer Science Revision - AQA - BBC Bitesize
Sound representation	https://www.bbc.co.uk/bitesize/guides/zd88jty/revision/8