

Year 7 Curriculum Overview Plan: ICT/Computing

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><u>Key Theme:</u> Using ICT at Airedale Academy</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> How to use a computer and make the most out of the computer network/software at Airedale Academy. Students will learn how to log on to a computer safely, file management, health and safety and how to use emails.</p> <p><u>Links to Prior Learning:</u> Creating a safe password and logging</p>	<p><u>Key Theme:</u> Online safety</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> How to stay safe online, methods to protect individuals from Cyberbullying, grooming, fraud. Discussing the reality of online information.</p> <p><u>Links to Prior Learning:</u> Cyberbullying covered at KS2.</p> <p><u>Key Assessment Pieces:</u> Online assessment using Google forms</p>	<p><u>Key Theme:</u> Computing fundamentals</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> Introduction into the basics of computers- their parts and how they work</p> <p><u>Links to Prior Learning:</u> The difference between hardware and software and some examples should have been covered at primary school.</p>	<p><u>Key Theme:</u> Graphics skills</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> Making a logo for a business of your choice using graphics software</p> <p><u>Links to Prior Learning:</u> In Autumn 2 students are introduced to Serif DrawPlus, we will be using this again in greater depth</p>	<p><u>Key Theme:</u> Spreadsheets- basic skills for businesses</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> How to use the basic functions of Excel including formulas for a business purpose</p> <p><u>Links to Prior Learning:</u> The basics of spreadsheets such as some formatting and use of formulas should have been covered at primary school.</p>	<p><u>Key Theme:</u> Programming- an introduction to Python</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> What programming is and how to create a simple program on a computer using Python</p> <p><u>Links to Prior Learning:</u> Scratch or something similar should have been used at primary school. Students will also have looked at using sequence, selection, and</p>

<p>on to a computer have been covered at KS2.</p> <p><u>Key Assessment Pieces:</u> Baseline test set using Google forms</p> <p><u>Tier 3 Vocabulary Vault:</u> Password Log in File Folder Extension RSI</p> <p><u>Reading Exposure:</u> Using ICT at Airedale Academy knowledge organiser</p> <p><u>Strategies to enable new concepts, knowledge & skills to embed in long-term memory:</u></p>	<p>retrieval, interleaving</p> <p><u>Tier 3 Vocabulary Vault:</u> Online safety Grooming Trolling Cyberbullying Flaming Inflammatory Phishing Pharming Sexting</p> <p><u>Reading Exposure:</u> Online Safety at Airedale Academy knowledge organiser</p> <p><u>Strategies to enable new concepts, knowledge & skills to embed in long-term memory:</u></p>	<p><u>Key Assessment Pieces:</u> Test about the topic set using Google forms</p> <p><u>Tier 3 Vocabulary Vault:</u> Input Output Solid state Magnetic Optical Hardware Software Systems Applications</p> <p><u>Reading Exposure:</u> Computing fundamentals knowledge organiser</p>	<p><u>Key Assessment Pieces:</u> Peer and teacher assessment of logo using success criteria for judgment</p> <p><u>Tier 3 Vocabulary Vault:</u> Logo Autoshape Colour wheel Order Layer Pointer</p> <p><u>Reading Exposure:</u> Graphics knowledge organiser</p>	<p><u>Key Assessment Pieces:</u> Test about the topic set using Google forms</p> <p><u>Tier 3 Vocabulary Vault:</u> Cell Column Row Cell reference Format Formula Function</p> <p><u>Reading Exposure:</u> Spreadsheets knowledge organiser</p>	<p>repetition in programs.</p> <p><u>Key Assessment Pieces:</u> Teacher assessment of programming task using success criteria for judgement</p> <p><u>Tier 3 Vocabulary Vault:</u> Programming Algorithm Debugging String Variable Integer Syntax Input Iteration Count/condition controlled loops</p> <p><u>Reading Exposure:</u> Programming knowledge organiser</p>
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