

Achieve Higher

Year 8



Co-op Academy
Stoke-on-Trent

SUBJECT NAME: ICT / Computing				
Half Term	Curriculum	Reading	Watching & Listening	Other Opportunities
Autumn Term	Computer Data: Images/Sound/Characters	<p>Why is binary used in computers?</p> <p>https://turbofuture.com/computers/Why-is-Binary-Used-in-Computers</p>	<p>The History of Emoticons and Emoji</p> <p>https://www.youtube.com/watch?v=NCKFH5erf6Y</p> <p>Understanding ASCII and Unicode</p> <p>https://www.youtube.com/watch?v=5aJKKgSEUnY</p>	<p>Take a photo with your camera or phone. Then check the properties of the image to find all of the metadata; this can also be undertaken with sound recordings.</p>
Spring Term	Python Magic Programming Fundamentals	<p>Invent Your Own Computer Games with Python, 4th Edition</p> <p>https://inventwithpython.com/invent4thed/</p> <p>Computer Coding Python Projects for Kids:</p> <p>A Step-by-Step Visual Guide</p>	<p>Programming with Python</p> <p>http://compscience.net</p> <p>Coding For Kids in Python</p> <p>https://www.youtube.com/playlist?list=PLnb0FwCbM-50UuNjpeIrdEnISbbMK891Q</p>	<p>When playing your favourite game think about how it might have been coded. What data is held in a variable or an array, how it changes, what decisions are made STEP 6 and even if anything repeats.</p>
Summer Term	Flowchart Algorithms	<p>Designing an algorithm</p> <p>https://www.bbc.co.uk/bitesize/guides/z3bq7ty/revision/3</p>	<p>Introduction to Flowcharts</p> <p>https://www.youtube.com/watch?v=7qclxWFkIAk</p>	<p>Create flowcharts for everyday systems like traffic lights or burglar alarms.</p> <p>Spend time watching them work and planning your algorithm.</p>