



Belfairs Academy

Computing Year 7 Fundamentals

Knowledge & Skills	
Intro to Network and e-safety	<ul style="list-style-type: none">• People impersonating others• Consequences of cyber bullying• The safe use of social media• Keeping your devices virus free.• Risks of radicalisation and radical media
Computational Thinking	<ul style="list-style-type: none">• Focus on the important information only, ignoring irrelevant detail (abstraction)• Break down a complex problem into smaller and more manageable ones (decomposition)• Identify similarities among and within problems (pattern recognition)• Develop a step-by-step solution to the problem, (algorithms)
Scratch for Experienced Users	<ul style="list-style-type: none">• Develop understanding of programming using Scratch to the level of creating an interactive game
How Computers Work	<ul style="list-style-type: none">• Understand the hardware and software components that make up computer systems and how they communicate.
BBC Micro Bit	<ul style="list-style-type: none">• Development of programs on the BBC micro:bit using visual programming.• Understand how a program develops in a lifecycle.• Start to look at some MicroPython