

LEVEL 4 - U.K. CURRICULUM ALIGNMENT MAP

Level 4 - (Year 6 and 7) Ages 10-12	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.10	4.11
Science - Year 6											
<i>Evolution and inheritance</i>								✓			
<i>Light</i>			✓								
<i>Electricity</i>	✓										
Science - Year 7											
<i>Working Scientifically</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Biology - Genetics and Evolution</i>							✓	✓			
<i>Physics - Energy</i>						✓			✓		✓
<i>Physics - Motion and Forces</i>						✓					
<i>Physics - Waves</i>				✓							
<i>Physics - Electricity and Electromagnetism</i>											
<i>Physics - Matter</i>		✓	✓								
Computing - KS2											
<i>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Computing - KS3											
<i>design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>understand several key algorithms that reflect computational thinking [for example, ones for sorting and searching]; use logical reasoning to compare the utility of alternative algorithms for the same problem</i>					✓		✓	✓	✓	✓	



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<i>solutions and computers.</i>											
<i>Uses a range of operators and expressions e.g. Boolean, and applies them in the context of program control.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Selects the appropriate data types.</i>								✓			✓
Red Level											
<i>Appreciates the need for, and writes, custom functions including use of parameters.</i>								✓			✓
<i>Knows the difference between, and uses appropriately, procedures and functions.</i>	✓		✓	✓	✓		✓	✓	✓	✓	✓
<i>Uses and manipulates one dimensional data structures.</i>								✓			✓