

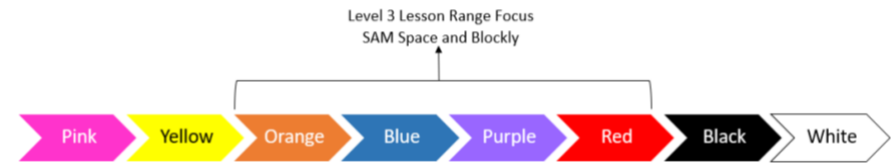


LEVEL 3 - U.K. CURRICULUM ALIGNMENT MAP

<i>Listen with attention to detail and recall sounds with increasing aural memory</i>			✓										
English - KS2													
<i>Reading - Word Reading</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Reading - Comprehension</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Writing - Transcription</i>		✓										✓	
<i>Writing - Composition</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Writing - Vocabulary, Grammar and Punctuation</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Geography - KS2													
<i>Physical Geography</i>				✓									
Mathematics - Year 5													
<i>Addition and Subtraction</i>									✓	✓			
<i>Multiplication and Division</i>									✓	✓			
<i>Measurement</i>	✓					✓							
<i>Geometry - properties of shapes</i>				✓									
Mathematics - Year 6													
<i>Number and Place Value</i>									✓	✓			
<i>Geometry - properties of shapes</i>				✓									
<i>Algebra</i>									✓	✓			

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Computing At Schools (CAS) Progression Grid Standards covered throughout the level 3 lessons on SAM Space and SAM Blockly. *Pink and Yellow levels covered throughout all.*



Level 3 - Ages 9-11	3.1 Properties of Matter	3.2 Morse Code	3.3 Guitar	3.4 Earthquake Simulator	3.5 Mars Rover	3.6 The Lighthouse	3.7 SAM Insect	3.8 Lava Lamp	3.9 Describing Expressions	3.10 Comparing Expressions	3.11 Apostrophe
Software Used	SAM Space	SAM Space	SAM Space	SAM Space	SAM Space	SAM Space	SAM Space	SAM Space	SAM Blockly	SAM Blockly	SAM Space
ALGORITHMS											
Orange Level											
<i>Designs solutions (algorithms) that use repetition and two-way selection i.e. if, then and else.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Uses diagrams to express solutions.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Uses logical reasoning to predict outputs, showing an awareness of inputs.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Blue Level											
<i>Shows an awareness of tasks best completed by humans or computers.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Designs solutions by decomposing a problem and creates a sub-solution for each of these parts.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Recognises that different solutions exist for the same problem.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Purple Level											

LEVEL 3 - U.K. CURRICULUM ALIGNMENT MAP

<i>Understands that iteration is the repetition of a process such as a loop.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Recognises that different algorithms exist for the same problem.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Can identify similarities and differences in situations and can use these to solve problems (pattern recognition).</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Red Level											
<i>Understands a recursive solution to a problem repeatedly applies the same solution to smaller instances of the problem.</i>	✓					✓	✓	✓		✓	✓
<i>Recognises that some problems share the same characteristics and use the same algorithm to solve both.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Understands the notion of performance for algorithms and appreciates that some algorithms have different performance characteristics for the same task.</i>				✓	✓	✓	✓				✓
Programming and Development											
Orange Level											
<i>Creates programs that implement algorithms to achieve given goals.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Declares and assigns variables.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
<i>Uses post-tested loop e.g. 'until', and a sequence of selection statements in</i>	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓

LEVEL 3 - U.K. CURRICULUM ALIGNMENT MAP

<i>programs, including an if, then and else statement.</i>												
Blue Level												
<i>Understands the difference between, and appropriately uses if and if, then and else statements.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Uses a variable and relational operators within a loop to govern termination.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
<i>Designs, writes and debugs modular programs using procedures.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
<i>Knows that a procedure can be used to hide the detail with sub-solution.</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
Purple Level												
<i>Understands that programming bridges the gap between algorithmic 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>	✓	✓		✓		✓	✓	✓			✓	✓
Red Level												
<i>Knows the difference between, and uses appropriately, procedures and functions.</i>		✓	✓	✓		✓	✓					✓



LEVEL 3 - U.K. CURRICULUM ALIGNMENT MAP