

KS3 Learning Intentions

Year 7 – Half term 6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Event Driven Scratch						
What?						
When?						
Why?						
Weeks 1 - 6	<p>Understand what is meant by “event-driven” computer programming.</p> <p>Remember how to generate a random number in scratch.</p>	<p>Understand what a variable is.</p> <p>Understand how computer make decisions (IF Statements).</p>	<p>Remember what we have learnt so far – event driven programming, random function, variables and IF statements.</p>	<p>Understand what a GUI is.</p> <p>Understand how to create and use more than one variable to hold data.</p>	<p>Understand how change the appearance of a variable.</p>	<p>Understand how to use the motion scripts to animate a sprite.</p>

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Year 8 – Half term 6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
<p>MicroBit Madness</p> <p>What?</p> <p>When?</p> <p>Why?</p>						
Weeks 1 - 6	<p>To understand what the Micro:Bit is.</p> <p>To understand the various components of the device.</p> <p>To understand the various programming environments.</p>	<p>To understand how to write a simple program.</p> <p>To understand what compiling is.</p> <p>To understand how to flash the compiled program to the device.</p>	<p>To develop our understanding of programming using the 'blocks' language.</p> <p>To practice the art of decomposition and abstraction to help solve a problem.</p> <p>To understand how to make use of the accelerometer.</p>	<p>Understand how to program the 'Compass' on the Micro:Bit</p> <p>Further develop skills in problem solving (decomposition and abstraction).</p> <p>To further develop our skills in programming using the 'blocks' language.</p>	<p>To develop our skills in programming using the blocks language.</p> <p>To understand the purpose of variables.</p> <p>To develop understanding of coordinates and see how they are used in developing graphical programs.</p>	<p>To develop our skills in programming using the python programming language.</p> <p>To understand some simple python syntax.</p> <p>To realise the similarities with the way we program in python compared to blocks.</p>

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Year 9 – Half term 6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
<p>Cyber Security</p> <p>What?</p> <p>When?</p> <p>Why?</p>						
Weeks 1 - 6	<p>Explain the difference between data and information.</p> <p>Critique online services in relation to data privacy.</p> <p>Identify what happens to data entered online.</p> <p>Explain the need for the Data Protection Act.</p>	<p>Recognise how human errors pose security risks to data.</p> <p>Implement strategies to minimise the risk of data being compromised through human error.</p>	<p>Define hacking in the context of cybersecurity.</p> <p>Explain how a DDoS attack can impact users of online services.</p> <p>Identify strategies to reduce the chance of a brute force attack being successful.</p> <p>Explain the need for the Computer Misuse Act.</p>	<p>List the common malware threats.</p> <p>Examine how different types of malware cause problems for computer systems.</p> <p>Question how malicious bots can have an impact on societal issues.</p>	<p>Compare security threats against probability and potential impact to organisations.</p> <p>Identify how networks can be protected from common security threats.</p>	<p>Identify the most effective methods of preventing cyberattacks.</p>