

# KS3 Learning Intentions

Year 7 – Half term 5	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>

KS3 Learning Intentions

Year 8 – Half term 5	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Scratch Shooter Game Maker						
What?						
When?						
Why?						
Weeks 1 - 6	<p>Remember how to program different types of movement in Scratch.</p> <p>Learn how to program gravity.</p> <p>Learn how to program jumping.</p>	<p>To understand how to use variables to record the direction of the character.</p> <p>To understand how to program the firing of a bullet from your main character.</p>	<p>Understand how to create baddies which move automatically.</p> <p>Understand how to program the main character so that it interacts with the baddie.</p> <p>Understand how to use a variable to record the score in a game.</p> <p>Understand how to shoot baddies and achieve a score.</p>	<p>To understand how to use IF-Statements and Broadcast scripts to program levels in a computer game.</p>	<p>To understand how to plan / design your own computer game.</p> <p>To understand what makes a successful game within this project.</p>	<p>To understand how to build / code your own computer game using "Scratch".</p> <p>To understand what makes a successful game within this project.</p> <p>Be able to peer and self-assess your work and make improvements to ensure you meet your target grade.</p>

KS3 Learning Intentions

Year 9 – Half term 5	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Scratch Scrolling Game Maker						
What?						
When?						
Why?						
Weeks 1 - 6	<p>Remember the coordinates system in Scratch.</p> <p>Learn how to program a scrolling background.</p> <p>Understand how Scrolling Backgrounds work.</p>	<p>Remember and understand how to program 'Gravity' in Scratch.</p> <p>Understand how to program the 'Shooter'.</p>	<p>Remember and understand how to program a 'Scoring System' in Scratch.</p> <p>Understand how to program a 'Baddie Object'.</p>	<p>Understand the theory of levels in the scrolling game.</p> <p>Understand how to program new levels in our current scrolling game.</p>	<p>To understand how to plan / design your own computer game</p> <p>To understand what makes a successful game within this project</p>	<p>To understand how to build / code your own computer game using "Scratch".</p> <p>To understand what makes a successful game within this project.</p> <p>Be able to peer and self-assess your work and make improvements to ensure you meet your target grade.</p>