




Summer 2 Year 3 – Events and Actions in Programs

<p>Computing Concepts</p>	<p>Presentation Expressing ideas</p>  <p>Presentation</p>	<p>Systems Knowing how to create and use programmes</p>  <p>Systems</p>	<p>Digital World Knowing how to use a range of technology</p>  <p>Digital world</p>
<p>Curriculum Objectives</p>			
<ul style="list-style-type: none"> • Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts • Use sequence, selection, and repetition in programs; work with variables and various forms of input and output • Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs • Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information 			
<p>Learning Overview</p>			
<p>This unit explores the links between events and actions, while consolidating prior learning relating to sequencing. Learners begin by moving a sprite in four directions (up, down, left, and right). They then explore movement within the context of a maze, using design to choose an appropriately sized sprite. This unit also introduces programming extensions, through the use of Pen blocks. Learners are given the opportunity to draw lines with sprites and change the size and colour of lines. The unit concludes with learners designing and coding their own maze-tracing program.</p> <p>Lessons will cover:</p> <ul style="list-style-type: none"> • Moving a sprite • Maze movement • Drawing lines • Adding features • Debugging movement • Making a project 			