

Workshop	LEGO® Education SPIKE™ Prime - Advanced Version
Recommended Year Groups	7-10
Subject	Computing and STEM
Course Description	<p>Students will build, code, and debug their own robots using our very own SPIKE™ Prime robotics sets!</p> <p>This advanced version of the workshop focusses on using sensors to allow the robots to interact with their environments in various ways including sensing colours, walls and tilt angle.</p> <p>Debugging and enhancing the code is a key part of coding the robot as the sensor code becomes more complex with loops and if/else statements to complete challenges successfully.</p>
Duration	45 Minutes
Equipment	LEGO® SPIKE™ Prime Sets LEGO® Education SPIKE™ App iPads
Capacity	16 students
Lesson Aims and Objectives	<ul style="list-style-type: none"> ✓ Understand the hardware and software components that make up computer systems and how they communicate with one another ✓ Evaluate and apply information technology, including new or unfamiliar technologies analytically, to solve problems ✓ Aid the creation of responsible, confident, and creative users of ICT ✓ Apply computing to embed intelligence in products that respond to inputs and control outputs using programmable components

