**LEGO® SPIKE™ Prime Robotics**

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| Workshop | LEGO® Education SPIKE™ Prime  |
| Recommended Year Groups | 7-9 |
| Subject | Computing and STEM |
| Course Description | Students will build, code, and debug their own robots using our very own SPIKE™ Prime robotics sets! Finding creative solutions as they develop their problem-solving skills, this experience will enable students to learn more about algorithms, sequences, and inputs & outputs.  |
| Duration | 45 Minutes |
| Equipment | iPadLEGO® SPIKE™ Prime Sets |
| Capacity | 16 students |
| Lesson Aims and Objectives  | * Design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems.
* Understand the hardware and software components that make up computer systems and how they communicate with one another.
* Understand how instructions are stored and executed within a computer system.
* Evaluate and apply information technology, including new or unfamiliar technologies analytically, to solve problems.
* Responsible, confident, and creative users of information and communication technology.
* Apply computing and use electronics to embed intelligence in products that respond to inputs and control outputs using programmable components.
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