

COMPUTING

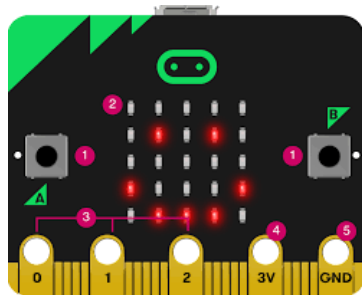
CODING ROBOTICS

National Curriculum Objective

- 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
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact

Key Vocabulary

Lego	coding	algorithm	Lego	coding
motor	instructions	manual	motor	instructions
speaker	buzzer	circuit	Wire	connections



Objectives

Student

Am I able to use technology safely, respectfully and responsibly?

Can I follow a programme to correctly sequence a construction?

Can I code an algorithm to achieve a specific goal e.g. movement / sound?

Can I use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs?