

# 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



Intents	Student
I have used technology safely, respectfully and responsibly.	
I can follow a programme to correctly sequence a construction.	
I can code an algorithm to achieve a specific goal e.g. movement / sound	
I have used logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	

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## e-Safety

### National Curriculum

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

The first lesson of each term throughout the year provides an important focus on e-safety. Children explore the ever-changing issues through discussion, presentation or group work.

safe	online	password	personal details
alert	e-safety	staying safe	awareness
support	report	trusted adults	pop-up
cyberbullying	suspicious	responsible	impact



Intents	Student
Know what e-Safety is and why it is important.	
Know how to report abuse or suspicious behaviour online.	
Understand what cyberbullying is and the impact it has on others	
Understand terminology associated to E-Safety.	
Know a network is an arrangement, system or group of connected things.	
Use technology safely, respectfully and responsibly.	