

# COMPUTING

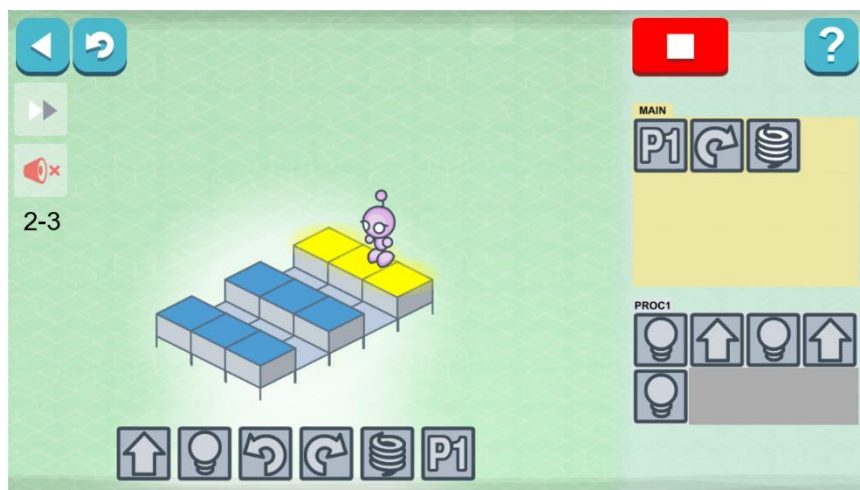
## PROBLEM SOLVING

### 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

data	algorithm	input	variable	programme
sequence	system	output	field	Lightbot



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