

Exploring Botley's World



What is Coding?

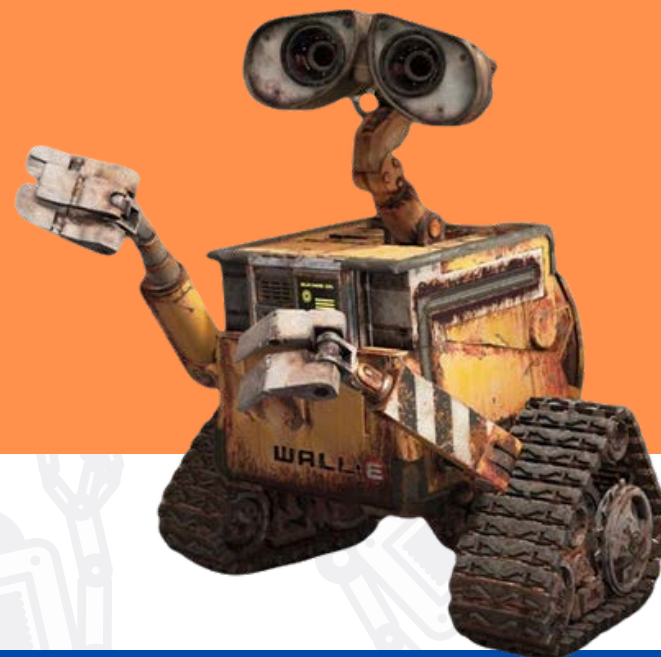
- Step by step instructions
- Specific order
- Complete a job or achieve an outcome.
- A code is also a sequence of instructions or an algorithm.
- Codes are one way to practice computational thinking.
- Coding means a computer or robot can do a task on its own.



What is a Robot?

- A robot is a machine that can be coded to do a task on its own.
- There are many types of robots.
- A robot can be coded to do different jobs or outcomes.
- What do you think of when you imagine a robot?

What is a Robot?

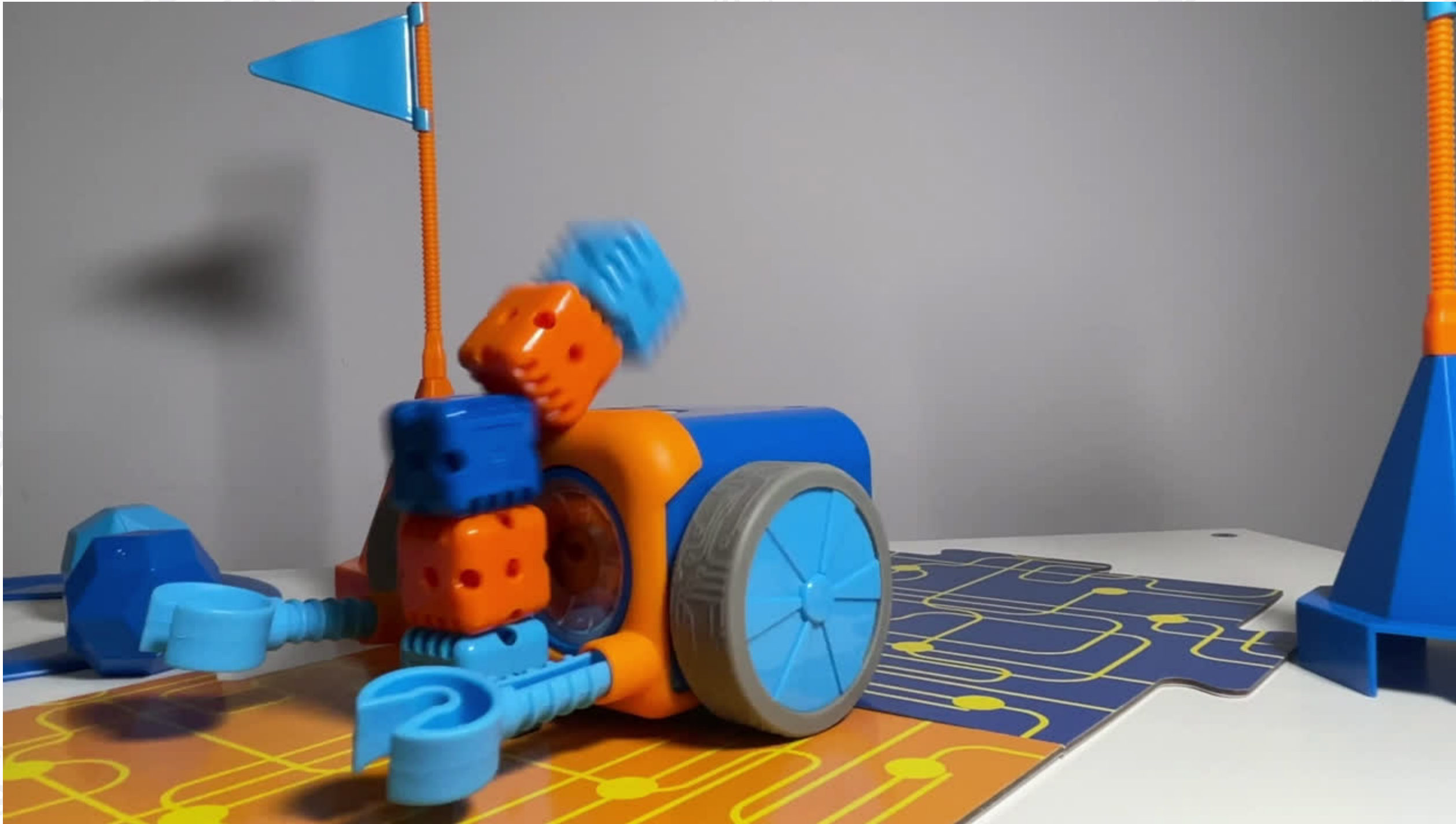


Who is Botley?

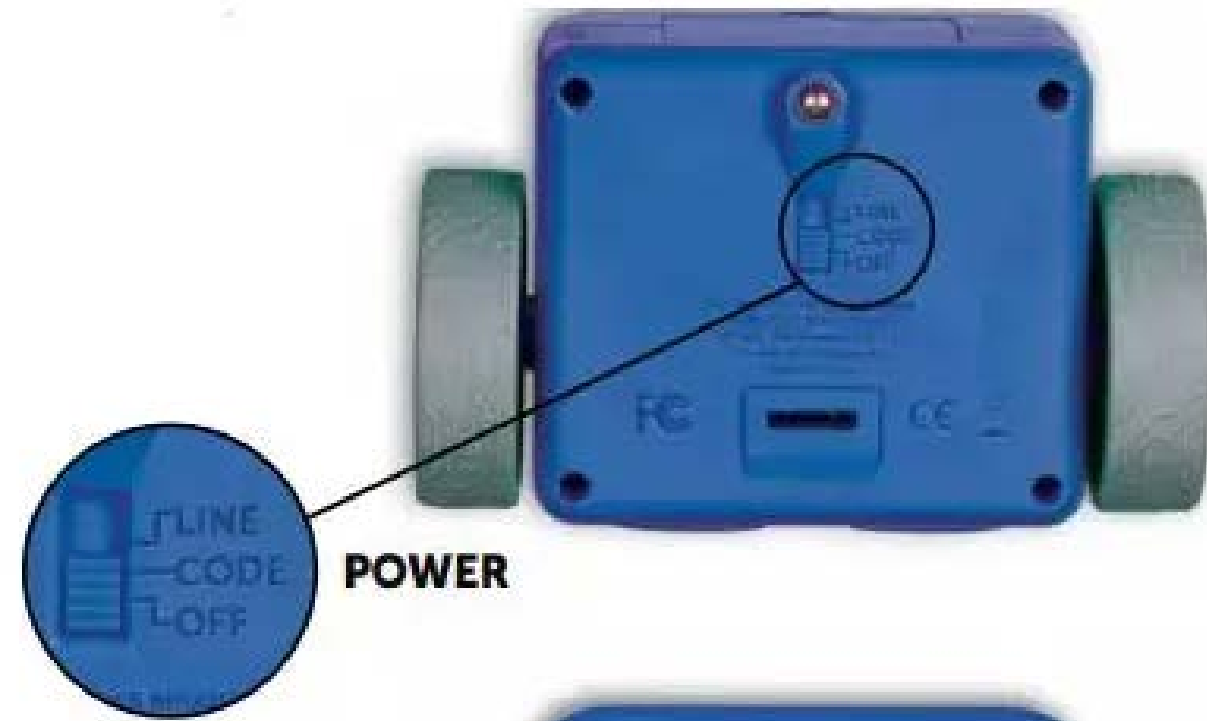
- A programmable robot.
- We can tell Botley what to do - or code it.
- We can code Botley to do different things.
- We will program Botley different ways to do different jobs.



Meet Bottley



Power Up Bottley



Programming Botley

Switch



Sensor

Botley's Remote Control

FORWARD (F)

Botley moves forward 1 step (approximately 8", depending on the surface).

TRANSMIT

Press to send your code from the Remote Programmer to Botley.

TURN RIGHT

45 DEGREES (R45)

Botley will rotate to the right.

TURN LEFT

45 DEGREES (L45)

Botley will rotate to the left 45 degrees.

LIGHT

Press to customize Botley's light color. Each press of the LIGHT button selects a new color!

LOOP

Press to repeat a step or sequence of steps.

SOUND

Press to toggle between 3 sound settings: **High**, **Low**, and **Off**.

OBJECT DETECTION

Press to enable object detection.

CLEAR

Press once to clear the last programmed step. **Press and hold** to clear all previously programmed steps.

TURN LEFT (L)

Botley will rotate to the left 90 degrees.

BACK (B)

Botley moves backward 1 step.

TURN RIGHT (R)

Botley will rotate to the right 90 degrees.



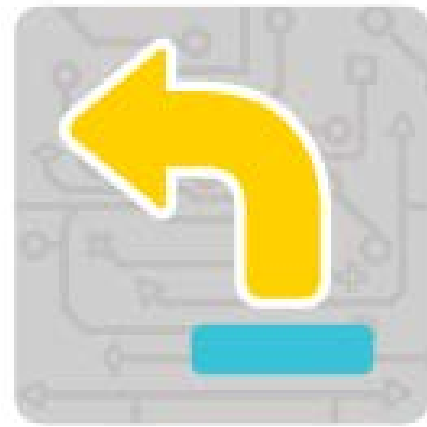
Botley's First Steps



Forward



Right Turn



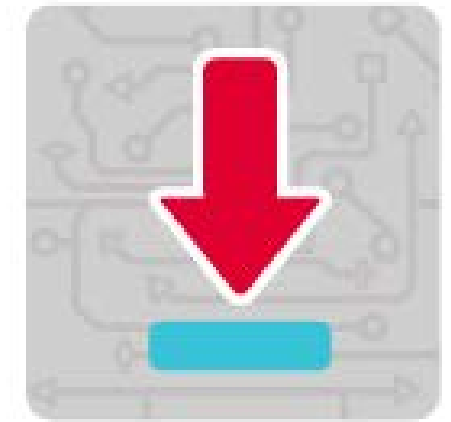
Left Turn



Right Turn



Left Turn



Backward



1. Choose 3 cards/steps to create a 3-step code.
2. Use the remote to program Botley to carry out your code.

Bottley's World

Outcome

Code

Algorithm

Creativity

Loops

Instructions

Design

Collaboration

