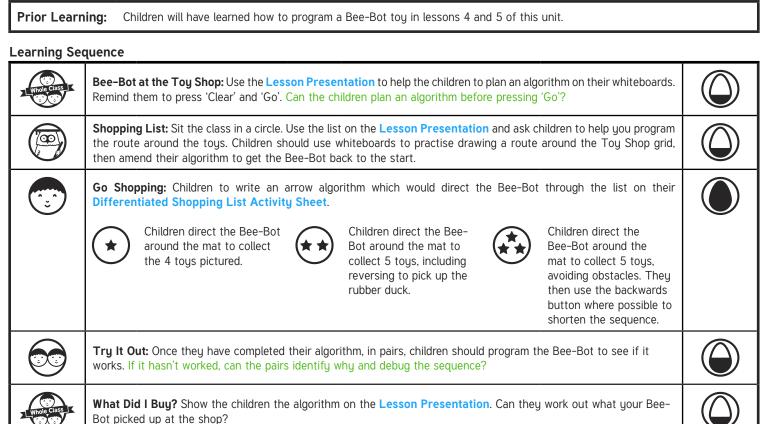
Programming Toys: Bee-Bot Toy Shop Part 2

Aim: Understand what algorithms are and that programs execute by following precise and unambiguous instructions. Create and debug simple programs. Children will work in the context of programming a Bee-Bot to reach set markers. I can program a sequence to make a Bee-Bot move.	Success Criteria: I can plan and check an algorithm. I can evaluate and improve my sequence (debug).	Resources: Lesson Pack Bee-Bots 3-4 toys Whiteboards and pens
	Key/New Words: Algorithm, program, debug, sequence.	Preparation: Differentiated Shopping List Activity Sheets - 1 per child Toy Shop Bee-Bot Mat - 1 per pair or group



Taskit

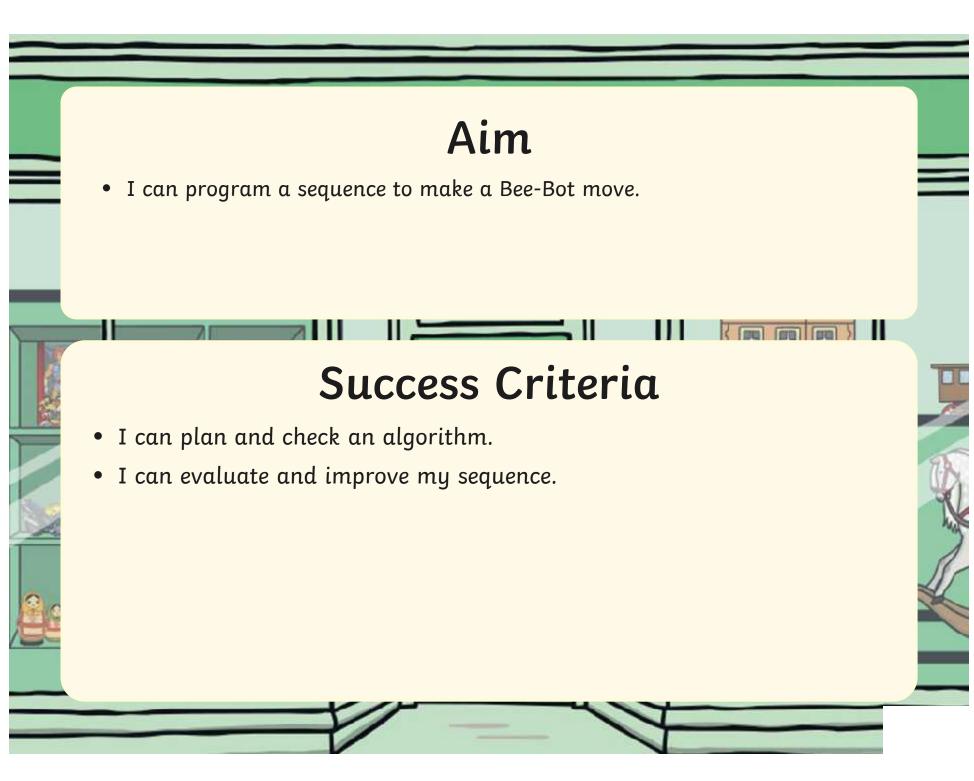
Listit: Children write a list, in groups, of toys that they think are robots. What kind of algorithms do they think makes it work? (Simpler wording – What instructions has that robot toy been given?) Write them down.

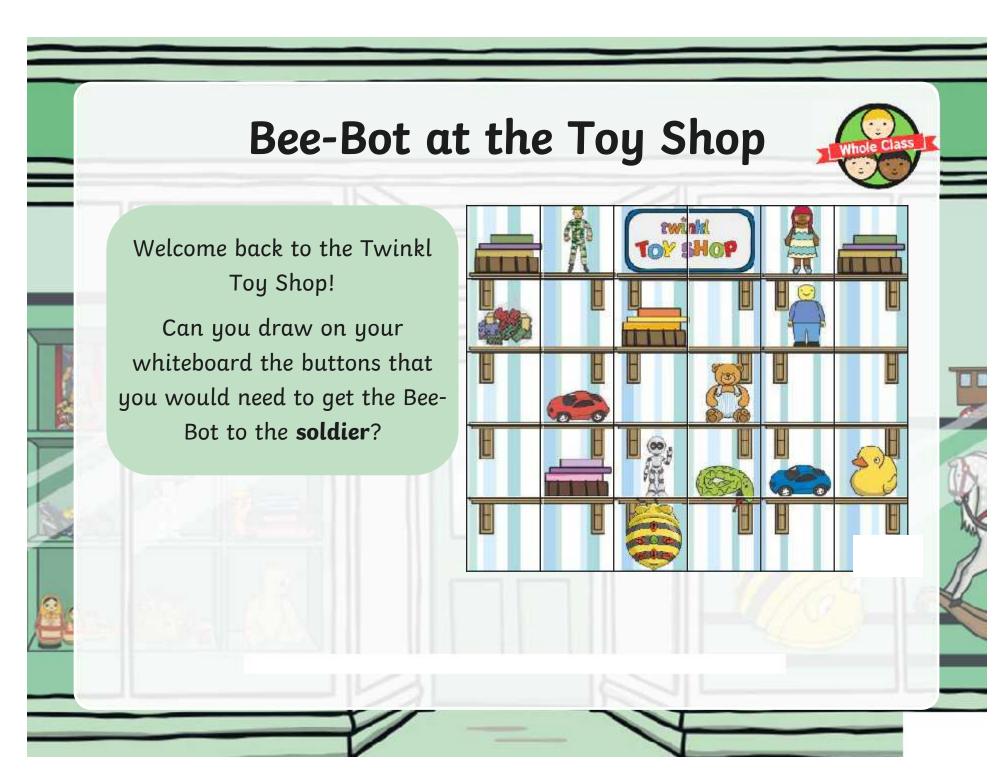
Playit: In a hall or on the playground, children can free play the activities in lessons 1 or 6 on a large scale: either programming each other, or a Bee-Bot to reach a real toy in a larger area, or to follow a chalk drawn pattern outside.

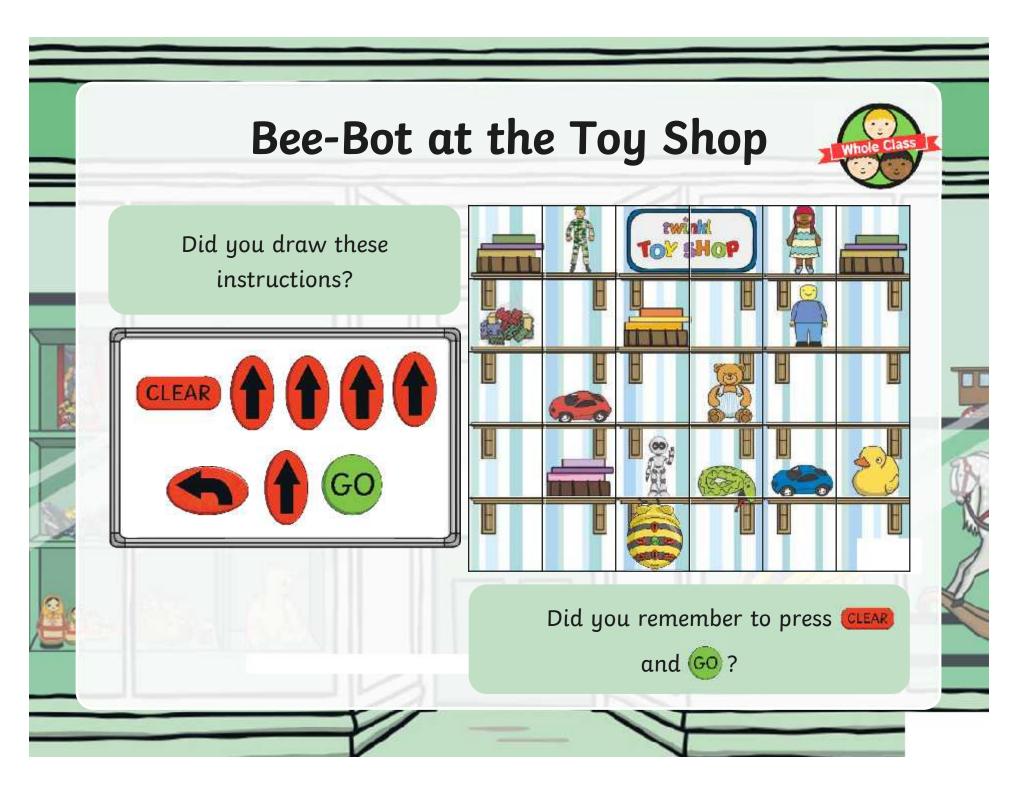


Computing | Year 1 | Programming Toys | Bee-Bot Toy Shop Part 2 | Lesson 6









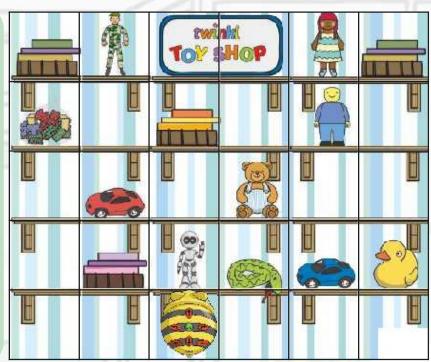


I want to buy:

- a blue car
- a brick man
- a red car
- a toy soldier

I want to get them in this order.

What's the best route for my Bee-Bot to take?



Remember, you can use the button to go back a square.



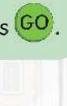


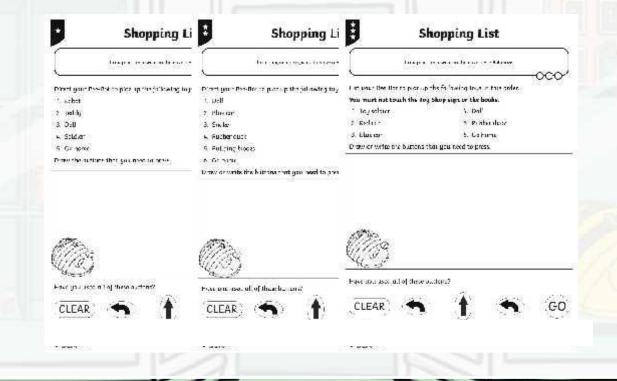




Now it's time to send your Bee-Bot shopping! Use your Shopping List to direct it around the mat.

Write your algorithm down and check it carefully before you press 60.









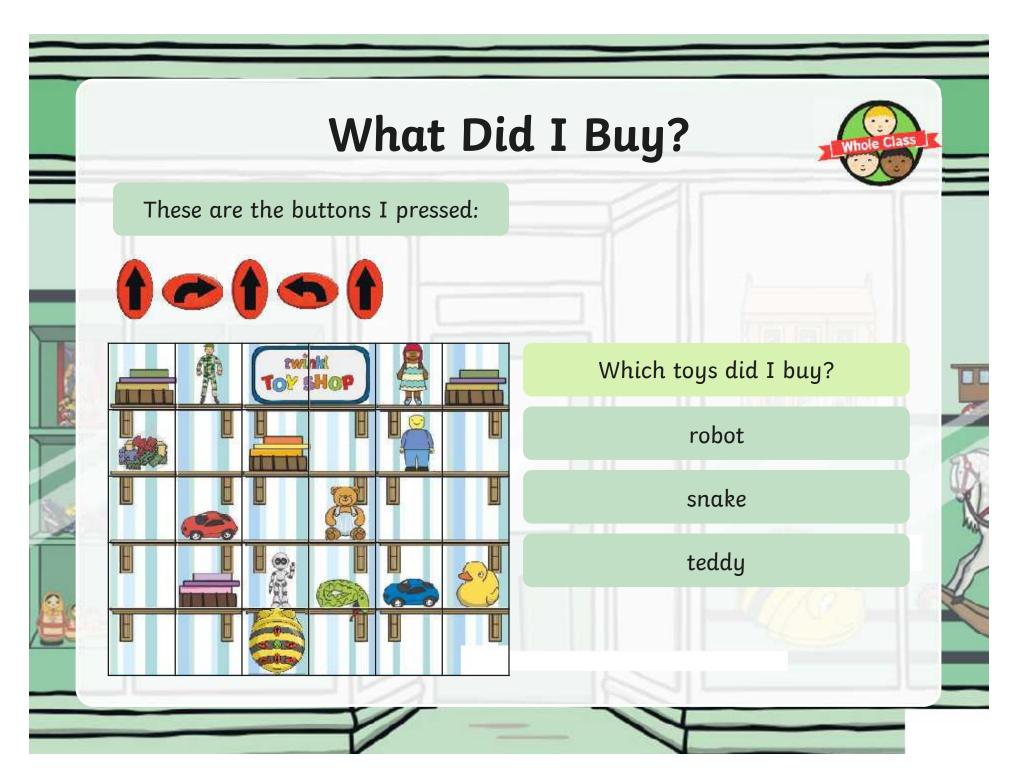
Help your partner to program the Bee-Bot using their algorithm.

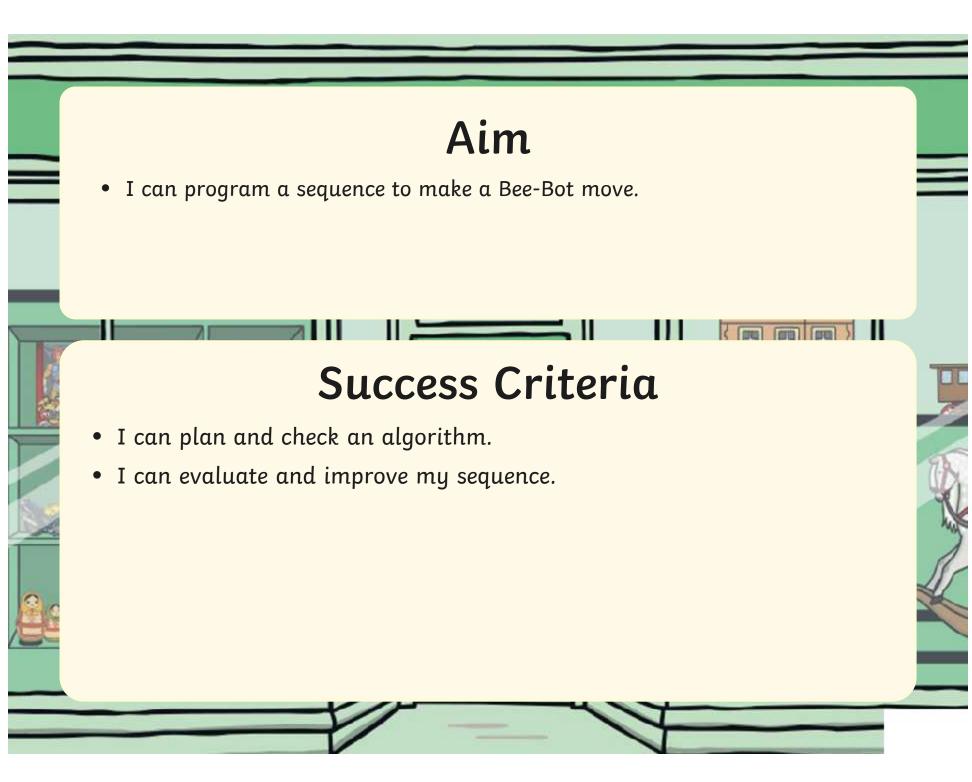
Does it work? What **bugs** does it have?

If not, help them to debug it!

Don't forget to use the CLEAR button when you swap turns!









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Programming Toys Bee-Bot Toy Shop Part 2	Programming Toys Bee-Bot Toy Shop Part 2
I can program a sequence to make a Bee-Bot move.	I can program a sequence to make a Bee-Bot move.
I can plan and check an algorithm.	I can plan and check an algorithm.
I can evaluate and improve my sequence (debug).	I can evaluate and improve my sequence (debug).
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I can program a sequence to make a Bee-Bot move.



Direct your Bee-Bot to pick up the following toys in this order:

- 1. Robot
- 2. Teddy
- 3. Doll
- 4. Soldier
- 5. Go home

Draw the buttons that you need to press.



Have you used all of these buttons?













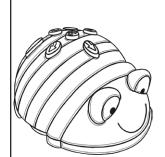
I can program a sequence to make a Bee-Bot move.



Direct your Bee-Bot to pick up the following toys in this order:

- 1. Doll
- 2. Blue car
- 3. Snake
- 4. Rubber duck
- 5. Building blocks
- 6. Go home

Draw or write the buttons that you need to press.



Have you used all of these buttons?













I can program a sequence to make a Bee-Bot move.



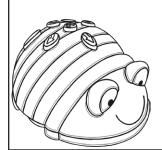
Get your Bee-Bot to pick up the following toys in this order.

You must not touch the Toy Shop sign or the books.

- 1. Toy soldier
- 2. Red car
- 3. Blue car

- 4. Doll
- 5. Rubber duck
- 6. Go home

Draw or write the buttons that you need to press.



Have you used all of these buttons?











