

Instructional Products since 1960

BEE MAZE

ROBOTIC ACTIVITY MAT



Summary: The Bee Maze mat is designed to introduce structured challenges for an early learner of robotics. This fun-loving mat is highly engaging and provides simple sequential based programming to make for a entertaining and interactive lesson.

Features:

- Fits up to 8 students
- Educational worksheet
- 4 Unique maze challenges

Objective: Navigate through each maze and collect the flower(s) as you avoid crossing any black lines and/or any hungry bears.

Skills taught: Basic navigation, sequential programming, teamwork and problem solving. This mat works best with the following robots: BeeBot and Code & Go Mouse.



Activity : Mazes

How to Use:

 Place the robot on one of the 4 mazes starting on the square with a green leaf each time.

2. Begin programming the sequence of code needed to collect a flower.

Tip: Move the robot by hand for the initial steps to visually see the direction the robot needs to travel and turn before programming.

3. To collect a flower, the robot must sit ontop of the flower.

4. Once a flower(s) have been collected, program the robot to navigate the rest of the maze and reach the beehive to complete that maze.

5. Complete each maze on the mat.

Challenge: Code and complete a maze in one programming attempt.







Worksheet 1 : Sequencial Navigation

Now it's your turn!

Beehive Activity Worksheet: Fill in the boxes with steps 1-5 below in which direction the robot should move to get to the red flower. Be careful not to touch any red squares!

Robots are preprogrammed with a set of specific instructions. They do not inherently know what to do or learn. For example: If I gave you a potato and called it a tomato, chances are you would correct me and know it was still a potato, but robots are different. They only do exactly what we tell them. We must program and tell them what to do step by step in order to complete a task the way we want them to.

This activity will help you understand how the sequencing works and how robots need step by step instructions in perfect order to complete a task.







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Worksheet 2 : Planning a Path

Beehive Activity Worksheet:

Draw arrows in each box of every maze to practice and plan out a path from leaf, to flower(s), to beehive.

