

Square Dancing: Drawing Shapes with Bee-Bot

30 minutes**Exploring Robotics and Commands**

WHAT THIS LESSON DOES

In this lesson, you'll guide your students in understanding directional commands and spatial awareness through programming Bee-Bots to move in square shapes. They'll play a game, draw squares, trace numbers, and work in groups to program Bee-Bots. This will enhance their sequencing, problem-solving, and collaborative skills, setting a strong foundation for advanced coding concepts.

WHAT STUDENTS SHOULD BE ABLE TO DO

- Develop understanding of sequencing and spatial awareness through programming Bee-Bots to move in square shapes.
- Enhance precision and planning skills in programming by creating both small and large squares.
- Improve problem-solving abilities by adjusting the number of forward steps between each turn to create larger squares.
- Strengthen collaborative skills through group work in programming Bee-Bots.
- Build a strong foundation in logical thinking and programming for more advanced coding concepts in the future.

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HOW THE LESSON RUNS
Introduction
Students as Bee-Bots
Drawing a Square
Tracing Numbers with our Beebots
Moving Bee-Bots in Squares
Wrap Up