

Activity Guide Robotics and Satellites

UNIT: ROBOTICS AND SATELLITES



Robotics and Satellites Activity Guide

Students will investigate robotics and satellites with a hands-on activity: navigating through a maze as a satellite while using commands from a robot.

Careers Highlighted	Materials
<ul style="list-style-type: none">● Guidance, Navigation and Control Engineer● Flight Dynamics Officer/ Engineer● Systems Engineer● Communication Engineer/ Specialist	<ul style="list-style-type: none">● Maze #1● Maze #2● Blank maze● Easel (or clip boards)● Dry erase markers
Grade Level	Time for Activity
<ul style="list-style-type: none">● Middle school (grade 6-8)	<ul style="list-style-type: none">● 10 minutes

Activity

- Using a standing easel (or two clipboards standing in an A shape), attach the [Maze #1](#) activity to one side of the easel and the [blank maze](#) to the other.
- Pair students, with one as the robot and one as the satellite.
 - The robot will stand on the side with [Maze #1](#).
 - The satellite will receive a dry erase marker and stand on the side with the [blank maze](#).
- The Satellite should ask the Robot questions to figure out how to navigate the maze. The Robot can only respond with three commands at a time. The Satellite marks their moves on the Blank Maze with an “X” as they progress.
- The team accomplishes the goal when they successfully navigate from the starting point to the ending point in the maze without hitting any “objects”.
- The team can repeat with [Maze #2](#) and the partners can switch roles this time.

Explore More!

[Robotics and Satellites Lesson Plan](#)