

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	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	
<ul style="list-style-type: none">• 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.<ul style="list-style-type: none">○ 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	