

Sphero Rovers – Student Worksheet

In this activity you will learn how to connect to and program the Sphero BOLT robots. Then you will use what you learned to write a program for your BOLT robot to complete a series of challenges on a simulated Mars Mission.

What are some of the most important things to remember when programming your robot?

On the back of this page, draw a picture of the Mars Mission obstacle course. Label the checkpoints, measure distances, and check headings.

What are some problems you had? How did you overcome them?

What were you most successful at? Why?

Can you think of another checkpoint challenge? What is it?

How do you think our Sphero Rover is similar to the rovers on Mars? How are they different?

FUN FACT: The Mars Perseverance Rover has an identical twin named OPTIMISM here on Earth. OPTIMISM can be used to troubleshoot problems and test programming before that programming is sent to Perseverance on Mars.

