



Name:

Date:

Robotics: Independent Learning Guide

The role models in the video “Robotics” discuss their careers in robotics, robots, and what the future might hold for the field of robotics.

Watch the video “[Robotics](#)” at least once. Then read each statement below. Think carefully about each question before you answer it.

- 1. One role model told us that everyone should consider a career in robotics because it is highly collaborative and involves people with lots of different expertise.**

What does it mean if a career is highly collaborative? Are you interested in collaborative careers? Why or why not?

- 2. Listeners learned that robots help build items like airplanes and undertake dangerous missions like going deep underwater or into outer space.**

Why do humans use robots for these types of tasks? In what ways are robots better at performing these tasks than humans would be?

- 3. In the video, one of the role models explained that her work with self-driving cars and robots would help to ensure that everyone has the opportunity to be mobile.**

How might self-driving cars and robots help people become mobile? Why is this important?

- 4. Some robots build things like airplanes and cars. Other robots, like Jibo, have jobs to be social or talk with humans.**

What interaction have you had with robots? Have you ever used anything built by robots? Explain your answer.

- 5. One role model predicted that, in the future, robots would help make some tasks easier for humans, such as cooking.**

What other tasks do you think robots might make easier in the future? What types of tasks would robots probably not be very good at? Why?

6. One role model told us that, “Humans are always going to be the ones who help the robot do the best job that it can do. It takes a lot of different humans who are empathetic and who are aware of what the robot can do and what the people need... [to] make sure that it’s a good fit.”

Why might it take a lot of different people to help a robot do the best job it can? What might happen if too few people were involved?

Why is it important to think about whether or not it’s a “good fit”?
