



PLTW Virtual Learning

6th Grade Intro to Gateway

April 23, 2020



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Lesson: April 23 (Part 4 of 5)

Objective/Learning Target:

Student will research and develop a deeper understanding of different types of robots used in society today and in the near future.

Warm-Ups:

You selected your robot category as part of Tuesday's lesson.

First, pull up a picture of the robot you decided to research.

Next, draw a picture of the robot as accurately as you can.
(Hint, having you sketch is a sneak peek for next week's lessons!)

Lesson Introduction/Background Information:

Tuesday, you were to pick one of the following categories of robots to research, and pick one robot within that category to research:

- Industrial
- Medical
- Assistive
- Exploratory
 - Rescue
 - Toys
- Household

Practice:

Today you are going to continue your research on your category. You are going to pick ONE robot from your category that you want to answer the questions about, so that will require some Googling before you start answering your research questions.

Then, I'm giving you three questions a day to find the answers to and record on a piece of paper.

Practice:

4. How is the robot taught to perform its task?
5. What sensors does the robot have and how does the robot use these sensors?
6. Name some advantages and disadvantages of using a robot to complete its assigned task.

Self-Assessment:

Go over the answers to your research questions today with someone else at home, explaining your research to them.

(You would have been presenting this information to the class if we were in school, so present it to someone at home!)

Extend Your Learning/Continued Practice:

What concerns, if any, do you have about the future use of robots in our society?