Automation & Robotics Virtual Learning

7th & 8th
What is Engineering Review
Day 3

April 27th, 2020

PLTW: Automation & Robotics
Lesson: What is Engineering Review Day 3 [April 27th]

Objective/Learning Target:
Students will review their knowledge technology and its positive and negative impacts on society.

Warm-up

Don't Forget! This week we will be reviewing our knowledge of unit 1.1 What is Engineering and Gear Ratios. We will alternate every other day.

Today we are going to review what we learned about Technology in unit 1.1 What is engineering.

Can you define Technology?

_____

_____

_____

Can you list three examples of Technology?

_____

_____

_____

Notes

As you work through today's lesson use the focused notes pages 6 through 9 to take notes over the different concepts we will be reviewing.

Makes sure your notes are in your own words and include important ideas and concepts from the lesson.

What is technology

As we learned in our lesson from last week, technology is any thing human-made. Technology is often a part of a new product or system, which is developed to solve a problem.

For example, a powerful engine increases the speed at which people can travel.

Technology can improve our lives by allowing us to travel farther and faster; however, sometimes technology has negative consequences.

For instance, with an increase in speed, there is an increase in the risk of a fatal accident. According to the U.S. Department of Transportation Federal Highway Administration, speeding is a factor in about one-third of all fatal crashes.

Every technology has both positive and negative effects on society.

Notes

Use this presentation ([PDF](#) or [Slides](#)) to take notes over the nine categories of technology. (If you were able to complete these notes in class you can use them!)

Make sure you give both a positive and negative example for each example you use.

	Topic/Unit: What is Technology	Name:
		Class/Period: Automation & Robotics/
		Date:

I can... Identify the _____ categories of technology and _____ science and technology

Questions/Main Ideas:	Notes:
	Define **Technology** -
	Define **Science** -
	Information Technology -

I.T. Example	Positive Impact	Negative Impact

Communication Technology -

C.T. Example	Positive Impact	Negative Impact

Questions/Main Ideas:	Notes: What is technology notes (Continued)		
	Biotechnology -		
	Biotech Example	Positive Impact	Negative Impact
	Agricultural Technology -		
	A.T. Example	Positive Impact	Negative Impact
	Medical Technology -		
	M.T. Example	Positive Impact	Negative Impact
	Environmental Technology -		
	E.T. Example	Positive Impact	Negative Impact
	Production Technology (Manufacturing & Construction) -		
	O.T. Example	Positive Impact	Negative Impact

Questions/Main Ideas:	Notes: What is technology notes (Continued)		
	Materials Technology -		
	M.T. Example	Positive Impact	Negative Impact
	Transportation Technology -		
	T. T. Example	Positive Impact	Negative Impact
	Energy & Power Technology:		
	Define **Energy** -		
	Define **Power** -		
	E. & P. Tech Example	Positive Impact	Negative Impact
	Nanotechnology -		
	Nano Tech Example	Positive Impact	Negative Impact

Questions/Main Ideas:	Notes: What is technology notes (Continued)

Summary/Reflection

Extend your learning

Thinking back to the notes and different categories of technology is there a category that could be combined with another category?

If so which one(s)

_____

_____

_____

Are we missing a type of technology?

_____

_____