# **MPj04387610000[1]Introduction to Technology**

# Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 9 – Transportation Student Activity 9.3**

**Artificial Intelligence and Automated Vehicles**

**Directions:** Click on the following website and watch the video on how AI will impact vehicles of the future: <https://www.teendrive365inschool.com/CarsOfTheFuture>

**Under the video box, click on Chapter 1 – What is AI?**

1. What does AI stand for?
2. What does “autonomous” mean?
3. What are some examples of how students can build AI skills?
4. What is the difference between AI and machine learning?
5. What is the input and the output that AI uses to learn?
6. The more \_\_\_\_\_\_\_\_ AI receives, the smarter it will be.

**Click on Chapter 2 – What is TRI?**

1. What is TRI’s mission?
2. How will robots help with this mission?
3. How will humans and self-driving cars work together in order to drive vehicles in the future?
4. Why is a simulator being used for a lot of the trials needed to perfect the technology?

**Click on Chapter 3 – Platform 3.0**

1. Vehicles use a variety of \_\_\_\_\_\_\_\_ to collect data about its surrounding environment.
2. How will having many test cars on the road help Toyota to achieve their goals?
3. What type of educational background might someone need to work in this type of job?
4. Will autonomous cars look different than cars do today?
5. What is the hardest thing for AI to learn about driving?

**Click on Chapter 4 – Test Track**

1. What is “Chauffeur Mode”?
2. What is “Guardian Mode”?

**Click on Chapter 5 – What is Mcity?**

1. How is Mcity like a real city?
2. Why do they create an environment like a real city for their trials?
3. Who is “Sebastian”? Why is he so important when testing automated vehicles?