

Name _____

- **Limited Adaptation:** The current road infrastructure is designed for human drivers. Autonomous vehicles need clear road markings, proper signage, and well-maintained roads to function optimally. Not all areas have this infrastructure in place.
- **Job Displacement:** As more autonomous vehicles hit the roads, there is concern that they could replace jobs traditionally held by human drivers, such as taxi drivers and truck drivers.

Limitations of Autonomous Vehicles

- **Weather Conditions:** Autonomous vehicles may struggle in adverse weather conditions like heavy rain, snow, or fog, which can affect their sensors and navigation systems.
- **Complex Road Situations:** Unpredictable road situations, such as construction zones with changing traffic patterns or navigating through busy city streets with erratic human drivers, can be challenging for autonomous vehicles.
- **Ethical Decision-Making:** Autonomous vehicles must be programmed to make quick decisions in emergencies. These decisions may involve choosing between avoiding a collision with another vehicle or protecting the occupants of the autonomous car, raising ethical questions about the value of human life.
- **Hacking and Cybersecurity:** Autonomous vehicles rely heavily on software and connectivity, making them vulnerable to hacking and cyberattacks. Ensuring the security of these vehicles is crucial.
- **Limited Availability:** While autonomous vehicles are making their way into the market, they are not yet widely available or affordable for most people. This limits their impact on reducing traffic congestion and accidents.

