

Name \_\_\_\_\_

## The Autonomous Revolution

### Short Answer Key

1. Answer: Level 1 introduces driver assistance features where the car can assist with either steering or acceleration/deceleration, but not both simultaneously. An example is adaptive cruise control.
2. Answer: Level 3 vehicles require the driver to be ready to take over when necessary, while Level 4 vehicles can operate autonomously in specific conditions without immediate driver intervention.
3. Answer: Challenges include safety, regulation, infrastructure upgrades, public acceptance, and cybersecurity.
4. Answer: In Level 3 autonomous vehicles, conditional automation means the car can handle most driving tasks but requires the driver to be prepared to intervene when needed, such as in complex or unexpected situations.
5. Answer: Public acceptance influences how people trust and use autonomous vehicles. Widespread acceptance is essential for the successful integration of autonomous technology into our transportation systems.

