

Name \_\_\_\_\_

## How Do Autonomous Vehicles Navigate and Sense Their Surroundings?

### Short Answer

1. Name one sensor used in autonomous vehicles that emits laser beams to create 3D maps.
2. How does GPS technology assist self-driving cars in navigation?
3. What technology helps autonomous vehicles recognize traffic signs and pedestrians?
4. What role do machine learning and artificial intelligence play in autonomous vehicle decision-making?
5. Why are redundancy and backup systems essential in self-driving cars?

