

Name \_\_\_\_\_

## Newton's First Law of Motion

### Answer Key

1. Newton's First Law of Motion states that an object at rest will stay at rest, and an object in motion will stay in motion with the same speed and in the same direction unless acted upon by a force.
2. An example of an object at rest following this law is a book sitting on a table. It remains at rest until someone or something moves it.
3. When you take your foot off the gas pedal in a car, the car slows down because it wants to keep moving at a constant speed due to inertia. Without the force from the engine, friction, and air resistance gradually slow it down.
4. Newton's First Law is related to riding a bicycle because when you stop pedaling, the bike eventually stops moving, as it follows the law of inertia.
5. Friction is important in understanding this law because it is the force that opposes the motion of an object, causing it to slow down and eventually stop.