

Name _____

Forces on Wheels

Answer Key

1. Cars move fast because they have powerful engines that produce force to push them forward. The forces involved include the engine force, friction with the road, and air resistance.
2. When a car accelerates, the engine produces a forward force that propels the car.
3. Friction plays a role in car movement by providing the force needed to grip the road, allowing the tires to push against it for forward motion.
4. A driver can slow down a car by applying the brakes, which counteract the forward force produced by the engine. Slowing down is necessary to control speed and come to a stop safely.
5. When riding a bike, you apply force to the pedals when pedaling, which makes the bike move forward. To slow down or stop, you use the brakes, which counteract the forward force generated by pedaling.