

Name \_\_\_\_\_

## The Dynamic Duo of Energy: Kinetic and Potential

### Short Answer Key

1. When you press the gas pedal, you convert chemical energy from fuel into kinetic energy, causing the car to accelerate.
2. When you apply the brakes, kinetic energy (motion) is converted into thermal energy (heat) due to friction, slowing down the car.
3. As a roller coaster descends from the top of a hill, it converts potential energy into kinetic energy, propelling the coaster forward.
4. An example could be jumping on a trampoline, where potential energy is stored when you reach the highest point and kinetic energy is maximized when you bounce.
5. Roller coasters need enough potential energy at the beginning to ensure a thrilling ride and to overcome friction and air resistance.

