

# Energy Road Trip

## Types of Energy

Potential energy is energy that is stored.

A car has potential energy when it is stopped.

Kinetic energy is energy an object has when it is moving.

Kinetic energy and speed have a direct relationship.

When the speed of an object decreases, the kinetic energy decreases.

When the speed of an object increases, the kinetic energy increases.

## Road Trip Conclusion

When did your car have potential energy (PE)? The car had potential energy when it stopped at the stop sign, the railroad track, and the cross walk.

When did your car have kinetic energy (KE)? The car had kinetic energy when it began to move after being stopped, when the car moved up then down the hill and when the car moved around the park.

### Color Codes Key

#### Short Super Slow



R G B

#### Slow



R BK B

#### Cruise



G BK G

#### Fast



B BK B

#### Fast



B G B

#### Nitro Boost



B G R

#### Pause (3 sec.)



R B B

#### Tornado



R G R B

#### Win/Exit (Play Again)



G B

# Energy Road Trip

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SAMPLE SOLUTION

