

Name:

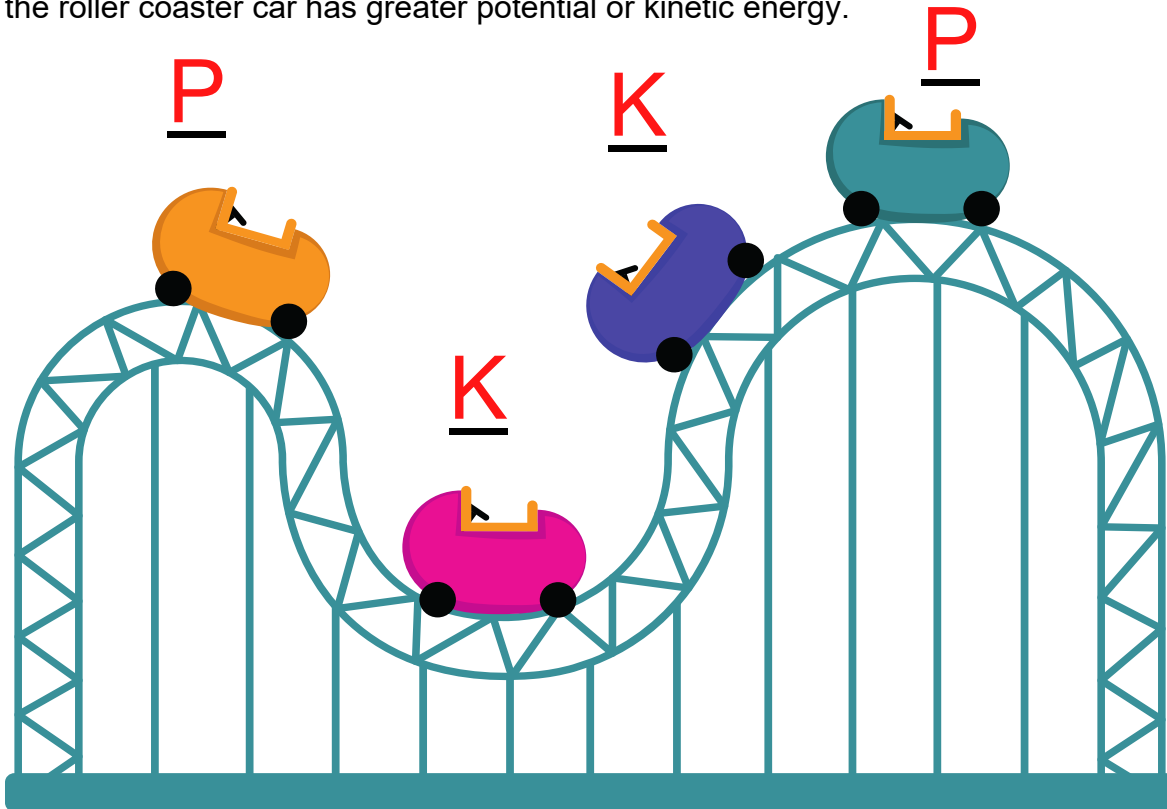
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Post-Activity Assessment **Answer Key**

1. What is kinetic energy? **Kinetic energy is the energy of motion.**
2. What is potential energy? **Potential energy is the energy of position.**

On the black line, write "p" for **potential** or "k" for **kinetic** to indicate whether the position of the roller coaster car has greater potential or kinetic energy.



3. Explain how roller coasters can travel through an entire course even though they do not have engines. Be sure to use the following vocabulary words in your explanation: **potential energy, kinetic energy, gravity, and friction.**

If a roller coaster starts off at the top of a hill, there's a lot of potential energy stored. As gravity pulls, the roller coaster moves downhill and the potential energy is transferred to kinetic energy. Air resistance and friction causes the roller coaster to slow down.