Name _____

Factors Influencing Kinetic Energy: What Makes Things Move?

Short Answer

1. Explain what kinetic energy is and why it's essential in our daily lives.

2. How does the mass of an object affect its kinetic energy? Provide an example to illustrate.

3. Describe the relationship between an object's speed and its kinetic energy. Give an example of a real-life situation where speed plays a significant role.

4. Why is the direction of motion a factor in determining kinetic energy? Provide an example.

5. Use the kinetic energy formula to calculate the kinetic energy of a car with a mass of 800 kg moving at a speed of 25 m/s.