

Name _____

Energizing Thermodynamics: Defining Work

Open-Ended Response Questions

1. Imagine you are lifting a heavy suitcase to put it on a shelf. Explain how work is being done in this situation, including the forces involved and the direction of motion.
2. Discuss the significance of understanding the different types of work in thermodynamics for engineers and scientists. Provide an example of how this knowledge could be applied.
3. If you were designing a new type of energy-efficient transportation, how would you consider the concepts of work and energy transfer in your design? What factors would you need to account for?
4. Consider a scenario where you are pushing a car uphill. Explain how the angle between the force you exert and the direction of motion affects the amount of work done.

