

Name: _____ Date: _____ Period: _____

Gravitational Potential Energy Practice Problems

1. A man with a mass of 80 kg is standing on the edge of a table that is 1.5 meters above the ground. What is the man's potential energy?

$$GPE = mgh = 80 \text{ kg} \times 9.8 \text{ m/s}^2 \times 1.5 \text{ m} = \boxed{1,176 \text{ J}}$$

2. A high jumper clears a vertical distance of 2.45 m, and at the top of his trajectory his potential energy was 1590 J. What is the jumper's mass?

$$1590 \text{ J} = m \times 9.8 \text{ m/s}^2 \times 2.45 \text{ m}$$

$$\boxed{m = 66.2 \text{ kg}}$$

3. A city is situated 4080 m above sea level. If a car with a mass of 905 kg is driven from a location that is 1860 m above sea level to the city, what is the increase in potential energy?

$$905 \text{ kg} \times 9.8 \text{ m/s}^2 \times 4080 \text{ m} = 36,185,520 \text{ J}$$

$$905 \text{ kg} \times 9.8 \text{ m/s}^2 \times 1860 \text{ m} = 16,496,340 \text{ J}$$

$$36,185,520 \text{ J} - 16,496,340 \text{ J} = \boxed{19,689,180 \text{ J}}$$

4. A 3.0 kg bowling ball is pushed down a 15 m high ramp. What is the potential energy of the bowling ball at the top of the ramp, in the middle of the ramp, and at the bottom of the ramp?

$$\text{Top} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 15 \text{ m} = \boxed{441 \text{ J}}$$

$$\text{Middle} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 7.5 \text{ m} = \boxed{220.5 \text{ J}}$$

$$\text{Bottom} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 0 \text{ m} = \boxed{0 \text{ J}}$$

5. What relationship exists between gravitational potential energy and the height above the ground? Why?

As height \uparrow , GPE \uparrow

As height \downarrow , GPE \downarrow

Challenge

6. A 2.0 kg rock is nudged off the edge of a 20 m ledge. At some point during the fall, the rock has lost 250 J of potential energy. At what height does this occur?

$$GPE = mgh = 2 \text{ kg} \times 9.8 \text{ m/s}^2 \times 20 \text{ m} = 392 \text{ J}$$

$$392 \text{ J} - 250 \text{ J} = 142 \text{ J}$$

$$142 \text{ J} = mgh = 2 \text{ kg} \times 9.8 \text{ m/s}^2 \times h$$

$$\boxed{h = 7.29 \text{ m}}$$

Energy Practice Problems With Key

Huangqi Zhang



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