

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

**Disha Experts**



## Energy Practice Problems With Key:

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**U Can: Physics I For Dummies** Steven Holzner, Daniel Funch Wohner, 2015-08-10 Whether you're a student who just needs to know the vital concepts of physics or you're looking for a basic reference tool this is a must have guide Free of ramp up and ancillary material it contains content focused on key topics only provides discrete explanations of critical concepts taught in an introductory physics course and provides a perfect reference for parents who need to review critical physics concepts as they help high school students with homework assignments

**Introduction to Energy and Sustainability** Ognjen S. Miljanic, Joseph A. Pratt, 2022-01-04 Ein umfassender Überblick über die derzeitigen Technologien zur Energieerzeugung und den heutigen Energieverbrauch Dieses Fachbuch verbindet in einzigartiger Weise die Ansichten eines Soziologen mit denen eines Naturwissenschaftlers Neben Erläuterungen und Ansätzen zur Quantifizierung von Energie und Nachhaltigkeit werden die heutigen Technologien zur Energieerzeugung und der aktuelle Energieverbrauch untersucht Besonderes Augenmerk liegt dabei auf ökologischen historischen und regulatorischen Aspekten jeder Energietechnologie Alternative und zukünftige

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