

KINETIC AND POTENTIAL ENERGY WORKSHEET

Name: _____ **KEY**

Determine whether the objects in the following problems have kinetic or potential energy. Then choose the correct formula to use: **KE = $\frac{1}{2} m v^2$** OR **PE = $mgh = F_w h$**

1. You serve a volleyball with a mass of 2.1 kg. The ball leaves your hand with a speed of 30 m/s. The ball has **kinetic** energy. Calculate it.

$$KE = \frac{1}{2} m v^2 = \frac{1}{2} (2.1 \text{ kg})(30 \text{ m/s})^2 = \mathbf{945 \text{ Joules}}$$

2. A baby carriage is sitting at the top of a hill that is 21 m high. The carriage with the baby weighs 12 N. The carriage has **potential** energy. Calculate it.

$$PE = F_w h = (12 \text{ N})(21 \text{ m}) = \mathbf{252 \text{ Joules}}$$

3. A car is traveling with a velocity of 40 m/s and has a mass of 1120 kg. The car has **kinetic** energy. Calculate it.

$$KE = \frac{1}{2} m v^2 = \frac{1}{2} (1120 \text{ Kg})(40 \text{ m/s})^2 = \mathbf{896000 \text{ Joules}}$$

4. A cinder block is sitting on a platform 20 m high. It weighs 79 N. The block has **potential** energy. Calculate it.

$$PE = F_w h = (20 \text{ m})(79 \text{ N}) = \mathbf{1580 \text{ Joules}}$$

5. There is a bell at the top of a tower that is 45 m high. The bell weighs 190 N. The bell has **potential** energy. Calculate it.

$$PE = F_w h = (45 \text{ m})(190 \text{ N}) = \mathbf{8550 \text{ Joules}}$$

6. A roller coaster is at the top of a 72 m hill and weighs 966 N. The coaster (at this moment) has **potential** energy. Calculate it.

$$PE = F_w h = (72 \text{ m})(966 \text{ N}) = \mathbf{69552 \text{ Joules}}$$

7. What is the kinetic energy of a 3-kilogram ball that is rolling at 2 meters per second?

$$KE = \frac{1}{2} m v^2 = \frac{1}{2} (3 \text{ kg})(2 \text{ m/s})^2 = \mathbf{6 \text{ Joules}}$$

8. The potential energy of an apple is 6.00 joules. The apple is 3.00-meters high. What is the mass of the apple?

$$PE = mgh \quad 6 \text{ J} = (3 \text{ m})(9.8 \text{ m/s}^2)(\text{__m}) \quad \mathbf{m = 0.20 \text{ Kg}}$$

Chapter 16 Section 1 2 Answer Key Kinetic Theory

M Carnoy



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