

Worksheet: Kinetic Energy & Work-Energy Theorem

KINETIC ENERGY

1. What is the formula for the kinetic energy of an object? Is KE a vector or a scalar? What are the units for KE?

$$\frac{1}{2}mv^2$$

Scalar

Joules (Nm)

2. A car has 20,000 J of KE. How much kinetic energy would it need to gain to be going twice as fast?

A) 40,000 J B) 20,000 J C) 60,000 J D) 80,000 J

$$\frac{1}{2}m(2v)^2$$

3. An elevator moves from the 5th floor to the 15th floor at a constant velocity. By what factor does its KE change?

0

constant velocity

4. If you triple the mass of an object and halve the velocity of an object, by what factor does the KE change?

$$\frac{1}{2}(3m)(\frac{1}{2}v)^2$$

$\frac{3}{4}$ less velocity

5. What is the work done by gravity if an 800 kg elevator is lifted from a height of 25 meters up to a height of 75 meters?

$$W_g = -mg\Delta h$$

$$= -800(10)(50)$$

$$W_g = -400,000 \text{ J}$$

6. A 75-kg skateboarder starts at the top of a slope that is at an angle of 25°. If the length of the diagonal part of the hill was 34 meters, what was the work done by gravity as they go from the top of the hill to the bottom of the hill.



$$\sin 25 = \frac{h}{34}$$

$$h = 14.4 \text{ m}$$

$$W_g = -mg\Delta h$$

$$= -75(10)(14.4 - 0)$$

$$W_g = -10,777 \text{ J}$$

WORK-ENERGY THEOREM

7. A 340-kg motorcycle accelerates from rest to 25 m/s.

a. What was the change in the kinetic energy of the motorcycle?

$$\Delta KE = \frac{1}{2}mv_f^2 - \frac{1}{2}mv_i^2$$

$$= \frac{1}{2}(340)(25)^2 - 0$$

$$\Delta KE = 106,250$$

b. What was the net work done on the motorcycle? Be sure to indicate if it was positive or negative.

$$\Sigma W = \Delta KE$$

$$\Sigma W = 106,250 \text{ J (positive)}$$

c. The motorcycle makes this change over a distance of 100 meters. What was the net force acting on the motorcycle?

$$\Sigma W = Fx$$

$$106,250 = F_{\text{net}}(100)$$

$$F_{\text{net}} = 1,062.5 \text{ N}$$

d. What was the acceleration of the motorcycle.

$$F_{\text{net}} = ma$$

$$1,062.5 = 340 a$$

$$a = 3.125 \text{ m/s}^2$$

e. So far, none of the questions so far have required the use of kinematics. Velocity, force and distance are all related now by net work and kinetic energy. Time cannot be found however by using these principles. Use kinematics to find how long it took the motorcycle to travel the 100 meters.

$$V_f = 25$$

$$V_f - V_i = at$$

$$a = 3.125$$

$$25 = (3.125)t$$

$$V_i = 0$$

$$t = 8 \text{ seconds}$$

8. A 0.68 kg rock is dropped from the top of a 45 meter tall tower.

a. Draw a free-body diagram for the rock on the way down.



b. What is the work done by gravity on the rock while it is on the way down?

$$\Sigma W = \Sigma Fx \cos \theta$$

$$= (-mg)\Delta h \cos \theta$$

$$(-0.68(10))(-45)$$

$$\Sigma W = 306 \text{ J}$$

Answers Pgil Work Power And Kinetic Energy

United States Naval Academy

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