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~~Calculate Kinetic and Potential~~
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what is its kinetic energy?

SOLUTION Step 1: List the given and unknown values. Given: mass, $m = 0.1499$ kg speed, $v = 35$ m/s Unknown: kinetic energy, $KE = ?$ J Step 2: Write the equation for kinetic energy. Step 3: Insert the known values into

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the kinetic energy equation, and solve. ` KE = 89 J PRACTICE 6. A cheetah can run briefly with a speed of 31 m/s.

Skills Worksheet Math Skills -
Somerset Canyons

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Rule for Kinetic Energy. $KE = \frac{1}{2}$

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Mass X Velocity². (Joules) (kg)
(m/s) $KE = \frac{1}{2} m \times v^2$. Rule for
Gravitational Potential Energy.
 $GPE = \text{Mass} \times \text{Gravitational} \times$
Height. (Joules) (kg) Acceleration
(m) (9.8 m/s².)

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Answer Key For Kinetic Energy
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Holt Science Spectrum 92 Work
and Energy Answer Key Math
Skills WORK 1. 2. 3. 4. 5. 6. 7. W
 $= Fd = (3,150 \text{ N}) \times 75.5 \text{ m} = 2.38$
 $\times 10^5 \text{ J}$ 8. $W = Fd = (1.6 \times 10^6 \text{ N})$
 $\times (2.0 \times 10^3 \text{ m}) = 3.2 \times 10^9 \text{ J}$ 9.

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$$W = Fd = (0.25) \times (1.5 \times 10^6 \text{ N}) \times (15\text{m}) = 5.6 \times 10^6 \text{ J}$$

10. 11. 12.

$$13. W = Fd = (2.23 \times 10^4 \text{ N}) \times (436 \text{ m}) = 9.72 \times 10^6 \text{ J}$$

14. 15. $W = Fd = mad = (70.0 \text{ kg})$

TEACHER RESOURCE PAGE

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Answer Key

$$v = \sqrt{2gh} \quad v = \sqrt{2 \times 9.8 \text{ m/s}^2 \times 1 \text{ m}} \quad v = 4.427... \text{ m/s. Summary.}$$

Energy is the ability to do work.

Potential Energy (PE) is stored energy due to position or state. PE due to gravity = $m g h$. Kinetic Energy (KE) is energy of motion.

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$$KE = \frac{1}{2} m v^2.$$

Potential and Kinetic Energy -
MATH

Kinetic energy is the energy
stored in moving objects.

Stationary objects have no kinetic

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energy. $E_k = 0.5 \times m \times v^2$.

Examples: A car with a mass of 700 kg is moving with a speed of 20m/s. Calculate the kinetic energy of the car. A cyclist and bike have a total mass of 100 kg and a speed of 15 m/s. Calculate the kinetic energy.

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Kinetic Energy Examples - Online
Math Learning

Show that the expression for
kinetic energy can be written in
terms of the momentum as $KE =$
 $p^2/2m$ and what is the kinetic

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energy of a bullet of mass 8.62 g
and momentum 5.612 kg m/s?

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Answers | Study.com

ANSWER KEY. 6. An object moving

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with a speed of 67 m/s and has a kinetic energy of 500 J, what is the mass of the object. $KE = \frac{1}{2}mv^2$
 $KE = 500J$ $m = ?$ $v = 67m/s$
 $2KE/v^2 = m$ OR $m = 2KE/v^2$
(rearrange equation) $m = 2(500J)/(67)^2$. $m = 1000J/4,489$ $m = .22$ kg.

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Kinetic Energy Practice Problems
Kinetic Potential Energy -
Displaying top 8 worksheets
found for this concept.. Some of
the worksheets for this concept
are Kinetic or potential energy,

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Kinetic and potential energy work
name date, What is energy,
Kinetic and potential energy work,
Rule for kinetic energy, Kmbt 754
20150622022119, 8th grade
science energy unit information,
Name period date.

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Kinetic Potential Energy

Worksheets - Kiddy Math

If a meteoroid traveling with this speed has a kinetic energy of 2.56×10^{13} J, what is its mass?

Solution. Step 1: List the given and unknown values. Given:

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speed, $v = 70.0 \text{ km/s} = 7.00 \cdot 10^4 \text{ m/s}$. kinetic energy, $KE = 2.56 \cdot 10^{13} \text{ J}$. Unknown: mass, $m = ? \text{ kg}$.
Step 2: Write the kinetic energy equation, and rearrange it to solve for mass.

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01 - Weebly

We tried to locate some good of
Determining Speed Velocity
Worksheet Answers or Worksheet
21 Math Skills Kinetic Energy
Answers Breadandhearth image
to suit your needs. Here it is. It
was from reliable on line source

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and that we love it. We hope this graphic will likely be one of excellent reference.

Determining Speed Velocity
Worksheet Answers or Worksheet

...

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Math Skills continued Step 3:
Insert the known values into the equation, and solve. Practice 10.
A medium-sized household oscillating fan draws 0.520 A of current when the potential difference across its motor is 120.0 V. How large is the fan's

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resist-ance? 11. A refrigerator's circuit has a current equal to 0.647 A in it when the voltage

Math Skills

This product is a color-by-number activity that allows students to

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answer various questions related to the potential and kinetic energy. And YES- even secondary students love to color! There are 12 different phrases/questions with answer choices to choose from.

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Potential And Kinetic Energy Color
Worksheets & Teaching ...

Work and Energy Section 3

Kinetic Energy □What factors does
kinetic energy depend on?

□Kinetic energy depends on both
the mass and the speed of an

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object. □ kinetic energy: the energy of an object due to the object's motion □ $KE = \frac{1}{2} \text{ mass speed squared}$, or $KE = \frac{1}{2}mv^2$

Section 1: Work, Power, and
Machines

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Kinetic Energy Answer Key

A.) Find the kinetic energy of the car at the top of the loop..

Express your answer numerically, in joules. B.) Find the minimum initial height min at which the car can be released that still allows the car to stay in contact with the track at the top of the loop..

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Kinetic Energy Answer Key

Express your answer numerically,
in meters.

Solved: A.) Find The Kinetic
Energy Of The Car At The Top ...
An object's kinetic energy is
based on its mass and velocity,

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the speed and direction of movement. So, the heavier an object is, and the faster it's moving, the more kinetic energy it has. In fact,...

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