

Multiple Choice Question MC Which of the following is possessed by a mov...

- 5. The power of an engine is a measure of
 - \rightarrow \bigcirc the rate at which it can perform work.
 - \bigcirc its volume.
 - \bigcirc its ability to outperform a horse.
 - \bigcirc the total amount of work it can perform.

Gradable: automatic Topic: Kinetic Energy Type: Conceptual Type: Definition

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Simple Machines, Work, and Power Type: Conceptual Type: Definition

Multiple Choice Question MC The power of an engine is a measure of

Select Q

- Select 🔂 6. Which has the greater kinetic energy—a 1-ton car moving at 30 m/s or a half-ton car moving at 60 m/s?
 - \rightarrow \bigcirc The half-ton car

 \bigcirc The 1-ton car

MC Which has the greater kinetic energy...

Multiple Choice Question

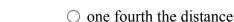
Select

- \bigcirc Both have the same kinetic energy.
- \bigcirc It cannot be determined because the mass of the cars can't be found.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Kinetic Energy Type: Numerical

- 7. A 20 N ball and a 40 N ball are dropped at the same time from a height of 10 meters. Air resistance is negligible. Which of the following statements is accurate?
 - After 1 second has elapsed, both balls have the same kinetic energy, since they have the same acceleration.
 - The heavy ball has a greater acceleration and falls faster.
 - \rightarrow O Both balls hit the ground at the same time but gravity does more work on the heavy ball than on the light ball.
 - The light ball has a greater speed, since it can accelerate faster than the heavy ball.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Multiple Choice Question **Topic:** Potential Energy MC A 20 N ball and a 40 N ball are dropped at t... Type: Conceptual 8. When work is done by a force on an object, then which of the following is true? \bigcirc The speed of the object must change. \bigcirc The object does an equal amount of work on the force. The work done is equal to the change of total kinetic energy of the object plus any energy appearing as heat, light, or sound. ○ The object must change height above the ground. Select \bigcirc The force cannot take energy away from the object. Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Conservation of Energy Multiple Choice Question MC When work is done by a force on an object, t... Type: Conceptual 9. A block sits on a slight incline, held at rest by the frictional force between the block and the incline. Which of the following statements is true? \rightarrow \bigcirc The frictional force performs no work, since there is no motion of the block. \bigcirc The work by the frictional force is equal to the gravitational potential energy of the block. The work done by the frictional force is negative, since the force of friction opposes the direction that the 0 block is being tugged by gravity. ○ The work done by gravity is entirely converted into heat because of the friction present. Select \bigcirc None of these is true. Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Multiple Choice Question Topic: Simple Machines, Work, and Power MC A block sits on a slight incline, held at re... Type: Conceptual 10. Initially, a blue automobile has twice the kinetic energy that a red automobile has. Both are braked to a stop; both have the same amount of braking force. The red auto will stop in as the blue auto. \rightarrow \bigcirc half the distance \bigcirc the same distance \bigcirc twice the distance \bigcirc four times the distance Select

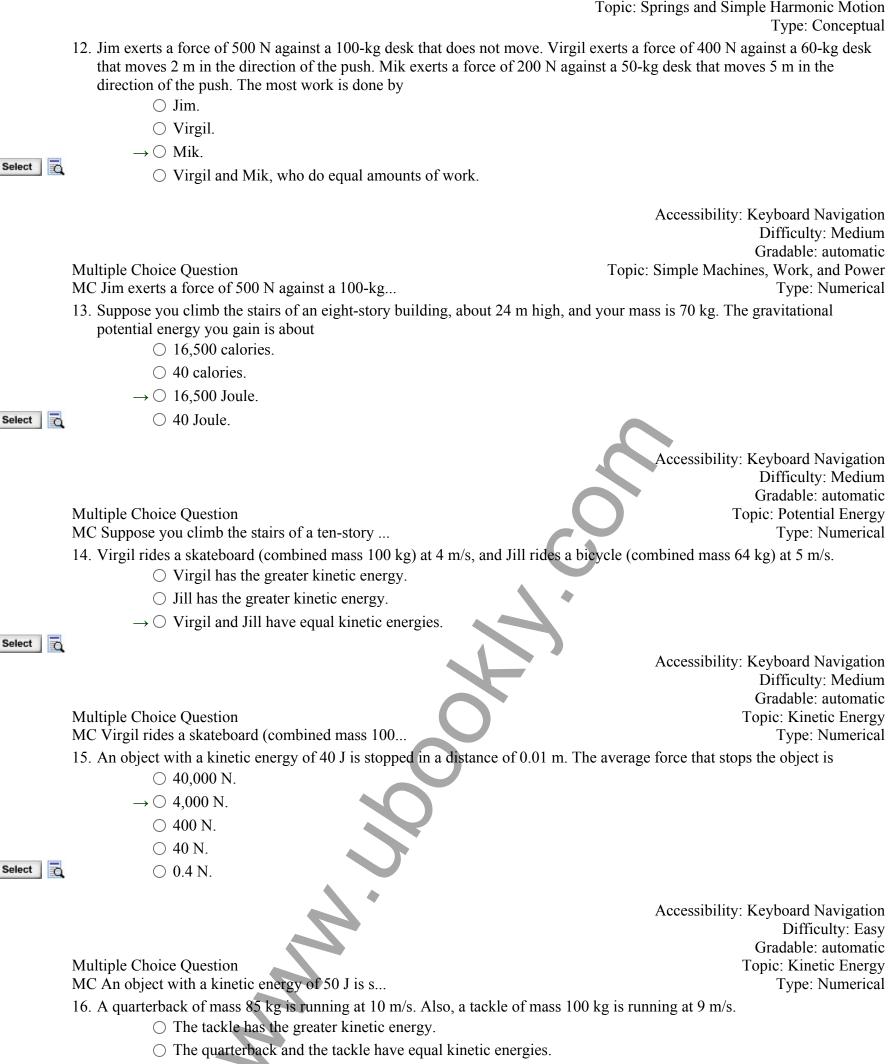


Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Kinetic Energy Type: Conceptual

Multiple Choice Question MC Initially, a blue automobile has twice the k...

- Select 11. A mass hangs from a spring that is fixed to the ceiling. The mass is now pulled down and released so the mass oscillates up and down. Which of the following statements is true?
 - \bigcirc The kinetic energy of the oscillating mass is a constant.
 - Adding mass to the spring will make it oscillate faster.
 - \bigcirc The restoring force of the spring is equal to the weight of the mass.
 - \bigcirc The gravitational force on the mass oscillates at the same frequency as the mass.
 - \rightarrow \bigcirc None of these is true.

Multiple Choice Question MC A mass hangs from a spring that is fixed to ... Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic



 \rightarrow \bigcirc The quarterback has the greater kinetic energy.

Multiple Choice Question MC A quarterback of mass 85 kg is running at 10...

17. For a 0.1-kg frog to jump to a height of 1.0 meter requires an energy of about

 \bigcirc 10 Joule.

 \rightarrow \bigcirc 1.0 Joule.

Select

Select Q

 \bigcirc 0.5 Joule.

 \bigcirc 0.1 Joule.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Potential Energy Type: Numerical

Multiple Choice Question MC For a 0.1-kg frog to jump to a height of 1.0...

Select 18. A 3.0-kg cat runs to the left at 10 m/s and a 10-kg dog runs to the right at 4.0 m/s. The total kinetic energy is -35 Joule.

Difficulty: Medium Gradable: automatic Topic: Kinetic Energy Type: Numerical

○ 0. \bigcirc -70 Joule. \bigcirc 146 Joule. \rightarrow \bigcirc 230 Joule.

Multiple Choice Question

Multiple Choice Question

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic **Topic: Kinetic Energy** Type: Numerical

- MC A 3.0-kg cat runs to the left at 10 m/s and ...
- 19. A child riding on a swing rises to a height 1.0 m above the lowest point. Another child of equal mass whose speed at the lowest point is twice as great will rise
 - \bigcirc to a height which depends on the mass.
 - \bigcirc to the same height.
 - \bigcirc twice as high.
 - \rightarrow \bigcirc four times as high.

MC A child riding on a swing rises to a height ...

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Conservation of Energy Type: Numerical

Type: Numerical

20. A box is moved 10 m across by a floor a force of 25 N acting along the direction of motion. The work done by the force is

 \rightarrow \bigcirc 250 J. ○ 125 J. ○ 35 J. ○ 25 J. ○ 2.5 J. Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Multiple Choice Question Topic: Simple Machines, Work, and Power

MC A box is moved 10 m across by a floor a forc...

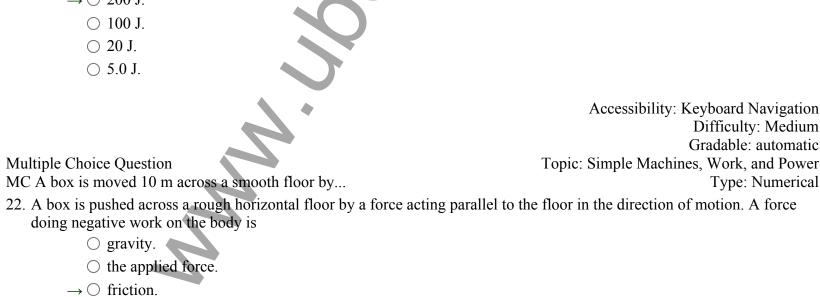
21. A box is moved 20 m across a smooth floor by a force making a downward angle with the floor, so that there is effectively a 10 N force acting parallel to the floor in the direction of motion and a 5 N force acting perpendicular to the floor. The work done is

○ 300 J. \rightarrow \bigcirc 200 J. ○ 100 J. ○ 20 J.

Select

Select

Select Q





 \bigcirc the normal reaction force of the floor upward on the body.

 \bigcirc a fictitious force.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Simple Machines, Work, and Power Type: Conceptual

Select 🔂 23. A box is pushed across a rough horizontal floor by a force acting parallel to the floor in the direction of motion. A force doing no work during the motion is

 \bigcirc the applied force.

MC A box is pushed across a rough horizontal fl...

 \rightarrow \bigcirc gravity.

Multiple Choice Question

 \bigcirc friction.

 \bigcirc All of the forces are doing work.

Multiple Choice Question MC A box is pushed across a rough horizontal fl... Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic

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Topic: Simple Machines, Work, and Power Type: Conceptual

24. The kinetic energy of a body is correctly given by which of the following expressions? (m=mass, v=speed)

 \bigcirc mv $\bigcirc 2mv^2$ $\bigcirc mv^2$ $\rightarrow \bigcirc (\frac{1}{2})mv^2$ ○ (½)mv Select Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic **Topic: Kinetic Energy** Type: Conceptual Multiple Choice Question MC The kinetic energy of a body is correctly gi... Type: Definition 25. A refrigerator weighing 1500 N is to be lifted onto a truck bed that is 1.0 m above the ground. When pushed up a slanting ramp 2.0 m in length a force of only 700 N is required to move it at constant velocity. Comparing the work involved in lifting the refrigerator straight up to the work in pushing it along the ramp, there is \rightarrow \bigcirc less work required when the ramp is employed. \bigcirc more work required when the ramp is employed. \bigcirc an equal amount of work is required in each case. Select Q Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Simple Machines, Work, and Power Multiple Choice Question Type: Numerical MC A refrigerator weighing 1500 N is to be lift... 26. Which of the following is not a unit of power? \bigcirc Watt ○ KiloWatt ○ Joule/second \rightarrow \bigcirc KiloWatt-hour ○ Horsepower Select Q Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Simple Machines, Work, and Power Multiple Choice Question Type: Conceptual MC Which of the following is not a unit of powe. Type: Definition 27. If the speed of a car is doubled but the brakes apply the same force, the distance required to stop the car changes by a factor of ○ ¼. $\bigcirc \frac{1}{2}$. ○ 1. ○ 2. Select → ○ 4. Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Kinetic Energy Multiple Choice Question MC If the speed of a car is doubled but the bra... Type: Numerical 28. A painter of mass 70 kg climbs 3.0 m up a ladder. The painter's potential energy has increased by

> ○ 1029 J. ○ 686 J. ○ 261 J. ○ 210 J.

Select

 \rightarrow \bigcirc 2058 J.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic **Topic:** Potential Energy Type: Numerical

Multiple Choice Question MC A painter of mass 80 kg climbs 3.0 m up a la...

Select 3 29. The potential energy of a spring of constant k that has been stretched a distance x is given by

 $\bigcirc (\frac{1}{2})k/x.$ \bigcirc kx. $\bigcirc (\frac{1}{2})kx.$ \bigcirc kx². $\rightarrow \bigcirc (\frac{1}{2})kx^2$.

Difficulty: Easy Gradable: automatic Topic: Springs and Simple Harmonic Motion Type: Conceptual Type: Definition

30. A pendulum swings through 10 cycles in 2 seconds. The frequency of the pendulum is
○ 10 Hz.
→ ○ 5 Hz.
○ 2 Hz.
○ 0.5 Hz.
○ 0.1 Hz.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Springs and Simple Harmonic Motion Type: Numerical

- 31. A grandfather clock that is regulated by a pendulum is taken to the Moon, where the acceleration of gravity is less. Compared to an identical clock on Earth, the grandfather clock on the Moon will
 - \bigcirc run fast.
 - \bigcirc keep time at the same rate.

MC A pendulum swings through 10 cycles in 5 sec...

 \rightarrow \bigcirc run slow.

Multiple Choice Question

Multiple Choice Question

MC The potential energy of a spring of constant...

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Springs and Simple Harmonic Motion Type: Conceptual

Multiple Choice Question MC A grandfather clock that is regulated by a p...

- 32. A mass hangs on a spring held in a physicist's hand. When the mass is pulled down and then released, it oscillates with a period of 2.0 s. This system is taken to the Moon, where the acceleration of gravity is less. The spring on the Moon is held in an astronaut's hand, and the mass, when pulled down and released, will
 - \bigcirc oscillate with a longer period.
 - \rightarrow \bigcirc oscillate with an unchanged period.
 - \bigcirc oscillate with a shorter period.
- Select

Select

Select

 \bigcirc not oscillate at all.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Springs and Simple Harmonic Motion Type: Conceptual

Multiple Choice Question

MC A mass hangs on a spring held in a physicist...

- 33. A grandfather clock that is regulated by a pendulum is orbiting the Earth aboard the space station. Compared to an identical clock on Earth, the grandfather clock aboard the space station will
 - \bigcirc run fast.
 - \bigcirc keep time at the same rate
 - \bigcirc run slow.
 - \rightarrow \bigcirc not run at all

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Springs and Simple Harmonic Motion Type: Conceptual

Multiple Choice Question

MC A grandfather clock that is regulated by a p...

34. A mass hangs on a spring held in a physicist's hand. When the mass is pulled down and then released, it oscillates with a period of 2.0 s. This system is taken to the space station orbiting the Earth. The spring is held in an astronaut's hand, and

the mass, when pulled down and released, will \bigcirc oscillate with a longer period.

 \bigcirc oscillate with a shorter period.

- \rightarrow \bigcirc oscillate with an unchanged period.
 - \bigcirc not oscillate at all.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Springs and Simple Harmonic Motion Type: Conceptual

Multiple Choice Question MC A mass hangs on a spring held in a physicist...

Select 🔂 35. In order for a body to exhibit simple harmonic motion there must be

 \bigcirc a constant force pushing the body away from the center.

 \bigcirc a constant force drawing the body toward the center.

 \bigcirc a force pushing the body away from the center and increasing with distance away from the center.

 \rightarrow \bigcirc a force drawing the body toward the center and increasing with distance away from the center.

 \bigcirc a force drawing the body toward the center and decreasing with distance away from the center.

Select

Select

Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic Topic: Springs and Simple Harmonic Motion

Type: Conceptual

Type: Definition

MC In order for a body to exhibit simple harmon...

MC A ball at the end of a string is swinging as...

Multiple Choice Question

Multiple Choice Question

- 36. A ball at the end of a string is swinging as a simple pendulum. Assuming no loss in energy due to friction, we can say for the ball that
 - \rightarrow \bigcirc the potential energy is maximum at each end of the motion.
 - \bigcirc the mechanical energy changes and is maximum where the kinetic energy is minimum.
 - \bigcirc the mechanical energy changes and is maximum where the kinetic energy is maximum.
 - \bigcirc the kinetic energy does not change but the potential energy does.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Springs and Simple Harmonic Motion Type: Conceptual

Accessibility: Keyboard Navigation

Topic: Springs and Simple Harmonic Motion

Difficulty: Medium Gradable: automatic

Type: Conceptual

- 37. A body is suspended from a spring hanging vertically. The body is then pulled downward so the spring stretches. Consider the change in the elastic potential energy (EPE) of the spring and the change in gravitational potential energy (GPE) as the body is pulled down.
 - \rightarrow \bigcirc The GPE decreases while the EPE increases.
 - \bigcirc The GPE decreases but the EPE is unchanged.
 - \bigcirc The EPE increases but the GPE is unchanged.
 - \bigcirc The GPE increases along with the EPE.
 - $\bigcirc\,$ Both the GPE and the EPE decrease.

Multiple Choice Question

MC A body is suspended from a spring hanging ve...

38. A bullet of mass 0.010 kg and speed of 500 m/s is brought to rest in a wooden block after penetrating a distance of 0.10 m. The work done on the bullet by the block is

 \rightarrow \bigcirc -1250 J.

○ 1250 J. ○ -2.5 J.

○ 2.5 J.

 \bigcirc zero.

Select Q

Select Q

Select

Select

Multiple Choice Question

Accessibility: Keyboard Navigation Difficulty: Hard Gradable: automatic Topic: Simple Machines, Work, and Power Type: Numerical

- MC A bullet of mass 0.010 kg and speed of 100 m... Type: Numerical 39. On a frictionless tabletop, a force is applied to an object: the object's velocity is horizontal and the force is perpendicular to
 - the tabletop. Which of the following is true?
 - \bigcirc The applied force is friction.
 - $\rightarrow \bigcirc$ The total energy of the object does not change.
 - \bigcirc There cannot be more than one force on the object.
- Select \Box \bigcirc The force does work on the object.

Multiple Choice Question MC On a frictionless tabletop, a force is appli... Topic: Conservation of Energy Type: Conceptual

- 40. A worker in a warehouse uses a rope passing through some pulleys to lift a heavy crate. The worker exerts a force five times less than the weight of the crate but has to move the rope four times as far as the crate moves. This situation
 - \bigcirc can happen because the extra distance traveled makes up for the smaller force applied.
 - \odot can happen because there is friction in the pulleys so the work done by the worker will not equal the work done on the crate.
 - \bigcirc cannot happen because a crate that heavy would lift the worker, rather than the worker lifting the crate.
 - \rightarrow \bigcirc cannot happen because the work done by the worker is less than the work done on the crate.

Accessibility: Keyboard Navigation Difficulty: Hard Gradable: automatic Topic: Conservation of Energy Topic: Simple Machines, Work, and Power Type: Conceptual

Multiple Choice Question MC A worker in a warehouse uses a rope passing ...

Select 🔂 41. Work is done on an object to increase its total energy. Which one of the following is true?

- \rightarrow \bigcirc The total work done must be equal to the energy lost to heat and sound.
 - \bigcirc Both the kinetic energy and potential energy can be larger.
 - \bigcirc If the potential energy increases, then the kinetic energy must decrease.
 - The object must have a larger speed and smaller height above the ground.

Accessibility: Keyboard Navigation Difficulty: Hard Gradable: automatic Topic: Conservation of Energy Type: Conceptual

Accessibility: Keyboard Navigation

Topic: Springs and Simple Harmonic Motion

Topic: Springs and Simple Harmonic Motion

Difficulty: Medium Gradable: automatic

Difficulty: Hard Gradable: automatic

Type: Conceptual

- 42. Two springs are hung from a ceiling and carry identical masses. The first spring has a spring constant twice as large as the second spring. The masses on each spring are pulled down from their equilibrium positions the same distance and are then released. The amplitude of the oscillation is
 - \rightarrow \bigcirc the same for both springs.

MC Work is done on an object to increase its to...

Multiple Choice Question

Multiple Choice Question

 \bigcirc Amplitude ○ Frequency

 \rightarrow \bigcirc Period

- \bigcirc larger for the first spring.
- \bigcirc larger for the second spring.

 \bigcirc It is not possible to know which is larger without knowing the mass.

MC Two springs are hung from a ceiling and carr... Type: Conceptual 43. A mass attached to a spring is drawn back 2 cm from equilibrium and released. If a second spring were used that had a smaller spring constant than the first but the mass was the same, which of the following would be larger? Accessibility: Keyboard Navigation

Multiple Choice Ouestion

MC A mass attached to a spring is drawn back 2 ...

 \bigcirc Initial restoring force

- 44. If the kinetic energy of an object increases, then
 - \bigcirc the potential energy must decrease.
 - \bigcirc the total energy must increase.
 - \bigcirc there can only be one force on the object
 - \rightarrow \bigcirc the speed must increase as well.

Select

Select O

Select O

Select

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Kinetic Energy Type: Conceptual

Multiple Choice Question

MC If the kinetic energy of an object increases...

45. If an object has a larger potential energy than kinetic energy,

- \bigcirc the speed of the object will increase.
- \bigcirc the speed of the object will not change.
- \bigcirc the speed of the object will decrease.

 \rightarrow \bigcirc It is not possible to predict what the speed will be; it depends on the situation.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Conservation of Energy Type: Conceptual

Multiple Choice Question

MC If an object has a larger potential energy t...

- 46. A simple machine allows you to move _____ masses even though you apply _
 - \rightarrow \bigcirc larger; smaller force over a longer distance
 - \bigcirc smaller; kinetic energy spread over the entire path
 - stationary but not moving; many Newtons of force
 - \bigcirc smaller; potential energy deficits

Select Q

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Simple Machines, Work, and Power Type: Conceptual Type: Definition

Multiple Choice Question MC A simple machine allows you to move _____

Select 🔂 47. Can the gravitational force of Earth do positive or negative work on a geosynchronous communication satellite, once it is on its circular orbit?

 \bigcirc No, because the satellite has zero acceleration.

 \rightarrow \bigcirc No, because the force is always perpendicular to the orbital path.

○ Yes, because centripetal forces always do positive work.

 \bigcirc Yes, because its speed is constant.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Multiple Choice Question Topic: Conservation of Energy MC Can the gravitational force of Earth do posi... Type: Conceptual 48. When you lift a heavy 5.0 kg crate straight up from ground level to a height of 2.0 m above ground level, then you have changed the crate's gravitational potential energy by \bigcirc 98 m²/s². $\rightarrow \bigcirc 98 \text{ J}.$ \bigcirc an undetermined amount, because it depends on how fast you lifted it. ○ 98 N. Select ○ 98 kg m/s. Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Multiple Choice Question **Topic:** Potential Energy MC When you lift a heavy 5.0 kg crate straight ... Type: Numerical 49. The potential energy of a spring is 0.3 J when it is compressed 0.04 m to the left of its equilibrium position. At this point it comes to its leftmost position. What is its kinetic energy at this point? ○ -0.3 J $\rightarrow \bigcirc$ zero O 0.3 J Select ○ 375 N/m Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Multiple Choice Question **Topic:** Potential Energy MC The potential energy of a spring is 0.25 J w... Type: Numerical 50. The potential energy of a spring is 0.3 J when it is compressed 0.04 m to the left of its equilibrium position. At this point it comes to its leftmost position. What is its kinetic energy when it returns to the equilibrium point? \rightarrow \bigcirc 0.25 J and moving to the right \bigcirc zero \bigcirc -0.25 J and moving to the left Select Q \bigcirc 0.25 J and at rest Accessibility: Keyboard Navigation Difficulty: Hard Gradable: automatic Multiple Choice Question **Topic:** Potential Energy MC The potential energy of a spring is 0.25 J w... Type: Numerical 51. A spring wound clock makes use of energy to drive the mechanism. elastic potential Select Q Difficulty: Easy Gradable: automatic Fill-in-the-Blank Question Topic: Springs and Simple Harmonic Motion FB A spring wound clock makes use of Type: Conceptual 52. A horizontal force acts on a block that is initially at rest but free to move across a smooth horizontal surface. The work

Select a

Difficulty: Easy Gradable: automatic Topic: Kinetic Energy Type: Conceptual

53. In pole-vaulting, in addition to gravitational potential energy there is potential energy in the bent pole which is analogous to potential energy stored in a ______ under compression.

(increases; does not change; decreases) the kinetic energy of the block.

spring

done by this force

Fill-in-the-Blank Question

increases

Select

Fill-in-the-Blank Question FB In pole-vaulting, in addition to gravitation...

FB A horizontal force acts on a block that is i...

Difficulty: Easy Gradable: automatic Topic: Potential Energy Type: Conceptual

Select 54. Other things being equal, the pole-vaulter having the greatest ______ energy prior to going into the jump should jump the highest.

kinetic

	Fill-in-the-Blank Question FB Other things being equal, the pole-vaulter h	Difficulty: Medium Gradable: automatic
		Topic: Kinetic Energy
	55. A small radio-controlled car's motor rated at 6 watts output is capable of pe	rforming Type: Conceptual Joules of work
	in 15 seconds.	
	90	
Select		Difficulty: Easy
		Gradable: automatic
	Fill-in-the-Blank Question FB A small radio-controlled car's motor rate	Topic: Simple Machines, Work, and Power Type: Numerical
	56. The of a pendulum is the amount of time the pendulum takes the	
	period	
Select		Difficulty: Easy
Select		Gradable: automatic
	Fill-in-the-Blank Question	Topic: Springs and Simple Harmonic Motion Type: Conceptual
	FB The of a pendulum is the amount o	Type: Definition
		is said to be done on the object.
	negative	\frown
Select		Difficulty: Easy
		Gradable: automatic
	Fill-in-the-Blank Question	Topic: Simple Machines, Work, and Power Type: Conceptual
	FB When a force acts in a direction opposite to	Type: Definition
	58. A ball of mass 5 kg attached to a string is swung in a horizontal circle of ra the work done by the tension in one revolution is J.	dius 0.5 m. If the tension in the string is 10 N,
	zero	
Select		
		Difficulty: Medium Gradable: automatic
	Fill-in-the-Blank Question	Topic: Conservation of Energy
	FB A ball of mass 5 kg attached to a string is	Type: Numerical
	59. Total mechanical energy of a system is conserved when there are only	forces doing work on the
	conservative	
Select		D.C
Jeleot		Difficulty: Easy Gradable: automatic
		Topic: Conservation of Energy
	Fill-in-the-Blank Question FB Total mechanical energy of a system is conse	Type: Conceptual Type: Definition
	60. The conversion of the initial potential energy of a person on a sled on a smo	
	is an example of the principle of conservation of	
	energy	
Select		Difficulty: Easy
	Fill-in-the-Blank Question	Gradable: automatic
	FB The conversion of the initial potential ener	Topic: Conservation of Energy Type: Conceptual