

# Mechanics

## MCQ Unit

### 06: Work and Energy

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## 1. Unit 06: Work and Energy

## 4. Chapter: Unit 06: Work and Energy

### 1. Unit 06: Work and Energy Questions

#### 4.1.1. How is the difference between the gravitational potential at a posi...

Author: Saylor Foundation

How is the difference between the gravitational potential at a position one meter above the ground and its potential energy on the ground defined?

Please choose only one answer:

- It is equal to the work done by an applied force to move the object from the ground to one meter above the ground.
- It is equal to the work done by gravity when the object is moved from the ground to one meter above the ground.
- It is equal to the vertical component of the work done by an applied force to move the object from the ground to one meter above the ground.
- It is equal to the vertical component of the work done by gravity when the object is moved from the ground to one meter above the ground.

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#### 4.1.2. How is the net work done on an object related to the kinetic energy...

Author: Saylor Foundation

How is the net work done on an object related to the kinetic energy of the object?

Please choose only one answer:

- The kinetic energy is equal to the net work.
- The change in kinetic energy is equal to the net work.
- The change in kinetic plus potential energies is equal to the net work.
- There is no specific relationship between net work and kinetic energy.

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### 4.1.3. If a 4 kg object slides down a frictionless incline from a height o...

Author: Saylor Foundation

If a 4 kg object slides down a frictionless incline from a height of 1.5 m above the ground, what will be its speed when it reaches the ground?

Please choose only one answer:

- 29.4 m/s
- 16.2 m/s
- 8.7 m/s
- 5.4 m/s

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#### 4.1.4. What is the definition of power?

Author: Saylor Foundation

What is the definition of power?

Please choose only one answer:

- Power is the amount of work consumed in a particular process.
- Power is the amount of work done divided by the time required to do the work.
- Power is the product of the work done and the time required to do the work.
- Power is the difference in the potential energy of the system before and after a particular process.

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#### 4.1.5. What is the definition of the work done on an object by a force?

Author: Saylor Foundation

What is the definition of the work done on an object by a force?

Please choose only one answer:

- The change in kinetic energy of the object resulting from the work done
- The force exerted times the resultant displacement
- The force exerted times the distance over which the force is exerted
- The product of component of the force along the line of motion and the distance over which the force is exerted

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#### 4.1.6. What is the work-energy theorem?

Author: Saylor Foundation

What is the work-energy theorem?

Please choose only one answer:

- The work done on an object by non-conservative forces is equal to the change in its kinetic energy.
- The work done on an object by a conservative force is equal to the change in its kinetic energy.
- The work done on an object by the applied external force is equal to the change in its kinetic energy.
- The work done on an object by the net force is equal to the change in its kinetic energy.

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#### 4.1.7. Which of the following is a non-renewable energy source?

Author: Saylor Foundation

Which of the following is a non-renewable energy source?

Please choose only one answer:

- Wind
- Coal
- Geothermal
- Solar

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#### 4.1.8. Which of the following statements regarding conservative and non-co...

Author: Saylor Foundation

Which of the following statements regarding conservative and non-conservative forces is false?

Please choose only one answer:

- The mechanical energy of the system is conserved if the work is done by conservative forces.
- Energy is not conserved if work is done by non-conservative forces.
- The work done by conservative forces is independent of the path taken.
- Friction is a non-conservative force.

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#### 4.1.9. How is the work done on an object by a force defined?

Author: Saylor Foundation

How is the work done on an object by a force defined?

Please choose only one answer:

- It is a vector physical quantity with a magnitude of force times the distance over which the force is applied.
- It is a vector physical quantity with a magnitude of distance times the component of the force in the direction of the motion.
- It is a scalar physical quantity with a magnitude of force times the distance over which the force is applied.
- It is a scalar physical quantity with a magnitude of distance times the component of the force in the direction of the motion.

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