

Grade
10-12

Physics A.3 Work, Energy, Power

Answer Key

Multiple-Choice Questions

1. All energy must be created or destroyed only transformed or transferred. Explanation: This is the fundamental law of conservation of energy. All energy transformations must follow this law. No energy is ever created or destroyed, only transformed. (Correct: transformation; incorrect: transformation; incorrect: transformation; incorrect: transformation)
2. All energy is conserved. Explanation: Only the conservation of energy is the correct answer. The law of conservation of energy states that energy cannot be created or destroyed, only transformed. (Correct: conservation; incorrect: conservation; incorrect: conservation; incorrect: conservation)
3. Kinetic energy depends on the mass and velocity of an object. Explanation: Kinetic energy is the energy of motion. It depends on the mass and velocity of an object. (Correct: mass and velocity; incorrect: mass and velocity; incorrect: mass and velocity; incorrect: mass and velocity)
4. Gravitational potential energy depends on the mass and height of an object. Explanation: Gravitational potential energy is the energy stored in an object due to its position in a gravitational field. It depends on the mass and height of the object. (Correct: mass and height; incorrect: mass and height; incorrect: mass and height; incorrect: mass and height)
5. Gravitational potential energy depends on the mass and height of an object. Explanation: Gravitational potential energy is the energy stored in an object due to its position in a gravitational field. It depends on the mass and height of the object. (Correct: mass and height; incorrect: mass and height; incorrect: mass and height; incorrect: mass and height)
6. Gravitational potential energy depends on the mass and height of an object. Explanation: Gravitational potential energy is the energy stored in an object due to its position in a gravitational field. It depends on the mass and height of the object. (Correct: mass and height; incorrect: mass and height; incorrect: mass and height; incorrect: mass and height)
7. Gravitational potential energy depends on the mass and height of an object. Explanation: Gravitational potential energy is the energy stored in an object due to its position in a gravitational field. It depends on the mass and height of the object. (Correct: mass and height; incorrect: mass and height; incorrect: mass and height; incorrect: mass and height)

1. A sample jumping off a height of 10 m. Calculate the gravitational potential energy at the top. (Correct: 100 J; incorrect: 100 J; incorrect: 100 J; incorrect: 100 J)
2. A sample jumping off a height of 10 m. Calculate the gravitational potential energy at the top. (Correct: 100 J; incorrect: 100 J; incorrect: 100 J; incorrect: 100 J)



Multiple-Choice Questions (20 Questions)

1. What does the principle of conservation of energy state?
A. Energy is destroyed when work is done.
B. Energy cannot be created or destroyed, only transformed or transferred.
C. Energy transfer occurs without any loss in all systems.
D. Energy is created from mechanical forces.
2. How is work calculated when force and displacement are not parallel?
A. $W = Fd$
B. $W = Fd \cos \theta$
C. $W = Fd \sin \theta$
D. $W = Fd \tan \theta$
3. Which of the following statements is true about kinetic energy?
A. Kinetic energy is proportional to the cube of velocity.
B. Kinetic energy depends on the velocity and the square of the mass.
C. Kinetic energy depends on the mass and the square of the velocity.
D. Kinetic energy is equal to the product of mass and velocity.
4. In a mechanical system, which combination forms the total mechanical energy?
A. Kinetic energy and heat energy
B. Gravitational potential energy and kinetic energy
C. Kinetic energy and heat energy
D. Heat and friction
5. Which energy transfer occurs during the combustion of a petrol engine?
A. Kinetic to thermal
B. Kinetic to gravitational potential
C. Thermal to kinetic
D. Chemical to mechanical
6. Which unit is used to express power?
A. Joule
B. Watt
C. Newton
D. Kilogram



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