

Energy stores

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Timer: 15 minutes. No calculator unless a question needs one. Answers are on the next page.

Q1. Name the energy store of a moving bicycle.

Q2. A force of 20 N moves an object 4 m in the direction of the force. Calculate work done.

Q3. Write the equation for kinetic energy.

Q4. A 2 kg mass travels at 3 m/s. Calculate its kinetic energy.

Q5. What happens to wasted energy in a closed system?

Q6. Write the equation for gravitational potential energy.

Q7. Calculate the weight of a 5 kg mass ($g = 9.8 \text{ N/kg}$).

Q8. Power is energy transferred divided by _____.

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Q1. Kinetic

Q2. 80 J

Q3. $E_k = \frac{1}{2} m v^2$

Q4. 9 J

Q5. It is transferred (often thermally) total energy is conserved

Q6. $E_p = m g h$

Q7. 49 N

Q8. time

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