

Physics (P1) Knowledge Questions

1. What is the scientific name for movement energy?
2. What is the scientific name for heat energy?
3. What is the name of energy stored in fuel?
4. What is the name of energy stored in objects that can be stretched and return to their original shape?
5. What is the name of energy stored between a North pole and a South pole?
6. What is the name of energy stored in an object above ground level?
7. What is the name of energy stored between a positively charged object and a negatively charged object?
8. What is the name of energy released from a nucleus of an atom?
9. What is the name of energy transfer which happens in wires?
10. What is the name of the type of energy transfer which happens when an object is pushed?
11. What is the name of energy transfer which happens when an object gives out light?
12. What is the name for rule "Energy cannot be created or destroyed, only transferred"?
13. Write the equation which links distance, force and work done
14. What is the unit of work done?
15. Write the equation which links gravitational potential energy, gravitational field strength, mass and height
16. What is the unit of Gravitation potential energy?
17. Write the equation which links kinetic energy, mass and velocity
18. What is the unit for Kinetic energy?
19. The name for Heat Energy going into the surroundings is
20. What is a lubricant used to reduce?
21. The measure of how good a device is at transferring energy usefully is called
22. Write the equation which links energy, power and time
23. What is the Unit of Power?

P1 Energy, Answers

- 1) Kinetic
- 2) Internal/Thermal
- 3) Chemical
- 4) Elastic potential energy
- 5) Magnetic energy
- 6) Gravitational potential energy
- 7) Electrostatic energy
- 8) Nuclear energy
- 9) Electrical
- 10) Mechanical
- 11) Radiation (Waves)
- 12) Law of conservation of energy
- 13) Work = Force x Distance
- 14) Joules
- 15) $E = mgh$
- 16) Joules
- 17) $E = \frac{1}{2} mv^2$
- 18) Joules
- 19) Dissipation
- 20) Reduce friction
- 21) Efficiency
- 22) $P = E/t$
- 23) Watt(s) W

1. Kinetic
2. Internal/Thermal
3. Chemical Potential
4. Elastic
5. Magnetic
6. Gravitational Potential
7. Electrostatic
8. Nuclear
9. Electrically
10. Mechanically (by force)
11. Waves (radiation)
12. The Law of Conservation of Energy
13. Work done = force x distance
14. Joule (J)
15. Gravitational potential energy = mass x height x gravitational field strength
16. Joule (J)
17. Kinetic Energy = $\frac{1}{2} \times \text{mass} \times \text{velocity}^2$
18. Joule (J)
19. Dissipation
20. Friction
21. Efficiency
22. Power = Energy/time
23. Watt (W)