

Board – ICSE

Class – 8

Topic – Work and Energy

1. Write the expression for work done by a force
2. State the S.I. unit of work and define it.
3. State two factors on which the work done on a body depends
4. Define the term energy
5. State the S.I. unit of energy
6. Define 1 joule of energy
7. How is work related to energy ?
8. What are the two kinds of mechanical energy ?
9. Give one example of a body that has potential energy, in each of the following
  - (a) Due to its position at a height
  - (b) Due to its elongated stretched state
10. Give the reason for the following :
  - (a) No work is done if a man is pushing against a wall
  - (b) Hammer drives a nail into the wood only when it is lifted up and then struck.
  - (c) A horse and a dog are running with the same speed. Which one of them has more kinetic energy than the other?
  - (d) A teacher moving around in the class is doing work but a child standing and reading a book is not doing any work.
11. State the energy changes in the following while in use :
  - (a) An electric bulb
  - (b) An electric fan
  - (c) A loud speaker
  - (d) A microphone
  - (e) An electric motor