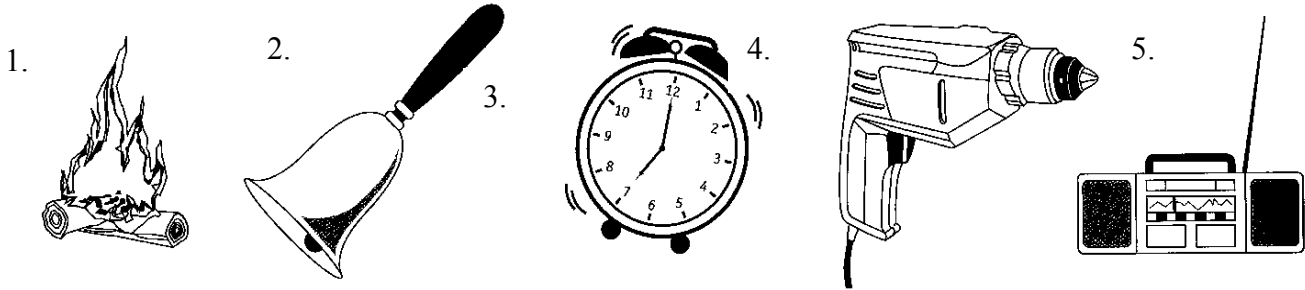


Energy Transformations

Energy makes things happen. It can be transferred (changed) from one type to another. One example is a light globe. When electricity passes through the metal filament, the wire heats up, glows and gives off light (and heat). Look at the following five diagrams and say what energy changes are occurring (in other words what type of energy is first supplied and to what type of energy it is being changed).



1. _____
2. _____
3. _____
4. _____
5. _____

Energy is needed to change things. Energy is involved if something moves, gets warmer or colder, changes shape, gives off light and so on.

6. Some one says that energy can be 'used up'. Do you agree with this? Explain

Name a machine that changes chemical (stored) energy to movement.

One joule (J) is the unit of energy equal to the work done by a force of one newton (N) acting through a distance of one metre (m). It is names after James Prescott Joule, an English physicist.

Energy is measured in units called joules (J). The joule is a small unit so we often use kilojoules (kJ).

8. How many joules in a kilojoule? _____

Packaged food often has details of the energy content in joules shown on the labels.

9. Why might people wish to know the energy content of food? _____

!0. Name three fuels.

