

**NANUKU SANGAM SCHOOL**  
**BASIC SCIENCE YEAR 8**

**STRAND: Energy**

**SUB-STRAND: Energy Source and Transfer**

**CLO:** Investigate the transfer of some forms of energy and describe the effect of energy transfer on certain materials.

**FORMS OF ENERGY**

Energy can be found in different forms. Some forms of energy are as follows:

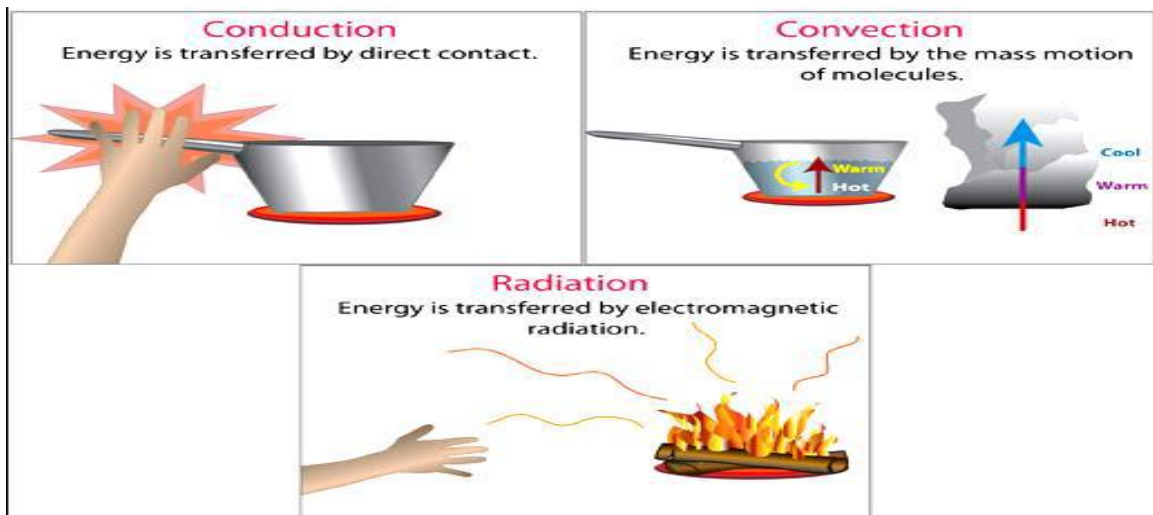
- i. Heat
- ii. Electrical
- iii. Sound
- iv. Solar

**I. Heat Energy**

Heat is a form of energy that is transferred from a region of higher temperature to one of lower temperature. A cold object placed in a warm place will absorb heat from its surroundings, causing its temperature to rise. On the other hand, a warm object will lose heat to its surroundings causing its temperature to fall.

There are three different ways of heat transfer:

- i. Conduction
- ii. Convection
- iii. Radiation



**Questions**

1. List some forms of energy.  
Sound, solar, heat, electrical
2. Define the following using the diagram given below.
  - a). Conduction – transfer of energy by direct contact
  - b). Convection – energy is transferred by mass movement of molecules
  - c). Radiation – transfer of energy by electromagnetic radiation
3. What are the three ways of heat transfer?

Conduction

Convection

Radiation