

1076 NADI SANGAM SCHOOL
YEAR 8 MATHS WORKSHEET 2 – 2021
BASIC SCIENCE - LESSON NOTES
STRAND 3 : ENERGY

What is Energy ?

-Is the strength and vitality required to keep alive .

Six (6) Sources of Energy

- Sun
- Wind
- Water (Hydropower)
- Geothermal
- Biomass (Organic matter)
- Fossil fuel (non - renewable)

Activity

Paste/draw pictures on each type of energy. Label them properly

Forms Of Energy

Four (4) Forms of Energy

1. Heat Energy
2. Electrical Energy
3. Sound Energy
4. Solar Energy

1. Heat Energy

- Form of energy that is transferred from a region of higher temperature to lower temperature .

3 Ways In Which Heat is Transferred

- a) *Conduction*
- b) *Convection*
- c) *Radiation*

Note

a) Conduction

- ❖ Transfer heat within a body or two bodies touching each other
- ❖ Occurs when solid, liquid or gas is at rest
- ❖ Energy flows but not the substance through which heat is transferred

Remember

- Conductor – materials that allows heat to travel e.g metals like iron, steel and copper
- Insulator – materials that does not conduct heat or electricity e.g rubber, wood, plastic

Example of Conduction

Draw a spoon on top of a hot cooking pot lid still cooking . Label your diagram



Note: Energy is transferred by direct contact

b) Convection

- ❖ Transfer of heat from one fluid to another by the movement of fluid itself

Note

- When a fluid is heated , its density decrease
- Liquids and gases are fluids
- Warmer volume will rise, cooler ones will descend

Activity

Copy the diagram based on Convection on Pg 81 and 3rd Diagram on Pg 82

