

WELCOME TO THE ONLINE CLASS

SESSION NO.: 20

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 11

CHAPTER NAME: FORCE AND ENERGY

**SUB TOPIC: ENERGY, DIFFERENT FORMS OF ENERGY- SOLAR
ENERGY, GEOTHERMAL ENERGY, WIND ENERGY**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

- **understand about energy.**
- **identify the types of energy.**
- **understand the importance of energy in real life.**

LET'S RECAP

- All big machines are combinations of _____ machines.
Ans: simple
- A _____ is simple machine used to hold things more tightly than a nail.
Ans: screw
- A flagpole used to hoist a flag has _____ pulley.
Ans: fixed
- A _____ is a simple machine which consists of a wheel attached with a rod.
Ans: wheel and axle
- A slide is an _____.
Ans: inclined plane

ENERGY

- Energy is the ability to do work.
- Energy is everywhere in nature: sunlight, water, wind, plants and animals.



DIFFERENT SOURCES OF ENERGY

- **The sun- which gives us solar energy.**
- **The wind - which provides us wind energy.**
- **The water- which provides us with hydro energy.**
- **The hot interior of the earth- which provides us with geothermal energy.**

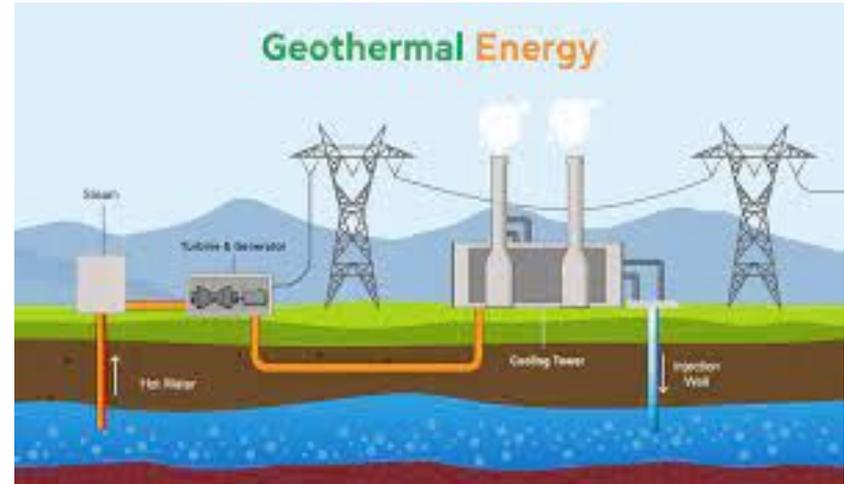
SOLAR ENERGY

- It is the most readily available source of energy.
- It is non polluting.
- We can use solar energy to dry our clothes.
- It can also be used for cooking food, heating water, etc.



GEOHERMAL ENERGY

- The word geothermal comes from the Greek words Geo meaning earth and therme means heat. So, geothermal energy is heat from within the earth.
- It is a renewable source of energy because of the water cycle which continuously goes on in our atmosphere.



WIND ENERGY

- Wind energy is a renewable, widely distributed, clean and non polluting sources of energy.
- It is considered to be the most environmentally friendly energy source.
- Wind energy can be converted into electricity by using wind turbines.



SUMMARY

- **Energy is the ability to do work.**
- **There are many different sources from which we get energy like the sun, wind, water and the hot interior of the earth.**
- **The energy that we get from these sources are non-polluting and renewable.**

READY FOR A
QUIZ ?

1. The most readily available source of energy.

Ans: Solar energy

2. The energy that we get from the hot interior of the earth.

Ans: Geothermal energy

3. The energy used to run the wind turbines.

Ans: Wind energy

HOMEWORK

Do the oral Q & A of page no. 103 in your notebook.

D. Write short answers.

1. Name the different types of forces.

Ans: The different types of forces are:

- a. muscular force
- b. gravitational force
- c. frictional force
- d. elastic force
- e. mechanical force
- f. buoyant force

2. What are simple machines?

Ans: Tools that make our work easier, faster and with less force are called simple machines. They have only few simple parts.

3. Why is geothermal energy referred to as a renewable source of energy?

Ans: Geothermal energy is referred to as a renewable source of energy because the heat is continuously produced inside the earth.

LEARNING OUTCOME

The learner will be able to:

- **understand about energy.**
- **identify the types of energy.**
- **understand the importance of energy in real life.**

THANKING YOU
ODM EDUCATIONAL GROUP