Lesson-3 Powerhouse

I. Word focus:

1. Energy

2. Kinetic energy

3. Chemical energy

4. Electrical energy

5. Potential energy

6. Mechanical energy

7. Renewable

8. Hydroelectric energy

9. Turbine

10. Transformation

11. Fossil fuel

12. Global warming

13. Greenhouse effect

14. Appliance

15. Atmosphere

II. KWL

III. Answer the following:

1. Do you think solar energy is good for our environment? Why?

Ans:

\* Solar energy is good for the environment because it is a renewable source of energy.

\* Solar energy is continuously available to us.

\* It does not cause any pollution.

2. How is fossil fuel formed?

Ans:

\* Fossil fuels are formed when living things such as animals and plants die. They decay and get buried deep in the ground.

\* For millions of years, they slowly turn into fossil fuels such as coal (land) or oil (sea beds).

3. Differentiate between renewable and non-renewable energy sources:

Renewable energy sources:

\* It is environment-friendly.

\* Carbon emissions are low.

\* These sources are replaced by nature in a short period.

\* e.g., sunlight, water, wind.

Non-renewable energy sources:

\* It is not environmentally friendly.

\* Carbon emissions are high.

\* These sources are replaced by nature after a very long time.

\* e.g., fossil fuels.

4. What is greenhouse effect?

Ans:

\* The sun gives us heat and light.

\* Some heat bounces back into the atmosphere.

\* Greenhouse gases like carbon dioxide and methane present in the atmosphere act like a blanket.

\* These gases trap the heat and stop it from escaping into space.

\* This is called the greenhouse effect.

5. What is global warming?

Ans:

\* When we release too many greenhouse gases into the atmosphere, the greenhouse effect increases.

\* This gradually increases the temperature of the Earth.

\* Earth becomes warmer for all living beings.

\* This is called global warming.

IV. Interactive Activity: Poster making – Global warming