



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Science

Grade 7

Week : 13th of 3rd Term

Unit 19 – Sources of Energy(1)

Activity 19.1

Understanding the concepts of renewable and non-renewable energy sources

You will need :- Two same sized glass fish tanks, three same sized cups, another cup half in size than the other cups, four buckets

Method :-

- Name the two tanks as “A” and “B”.
- Ask two of your friends to be near the tank “A” and another two near the tank “B”.
- Fill $\frac{3}{4}$ of each tank with water.
- Give two same sized cups to the friends near tank “A”. Give the other two cups to the friends near tank “B”.
- Ask one friend near the tank “A” to take out a cup of water from the tank and ask the other to put a cup of water into the tank. Notice the level of water in the tank.
- Ask the friend with the big cup who is near the tank “B” to take out a cup of water from the tank and ask the other friend with the smaller cup to put a cup of water into the tank. Notice the level of water in the tank “B”.

- The tank “A” represents renewable energy sources while the tank “B” represents non-renewable energy sources.
- Renewable energy sources are energy sources that are reproduced during use or within a short period of time after use.

Examples :

- Non-renewable sources are not reproduced after use. Otherwise it takes a long period of time to be reproduced.

Examples :

➤ Renewable energy sources

Activity 19.2

Constructing a simple solar heater

You will need:- A water tank, a rubber pipe, plastic pipes, a black coloured coverlet

Method:-

- Prepare the set up as shown in the figure. It is a model of a solar heater.
- Record the temperature of the water in the tank.

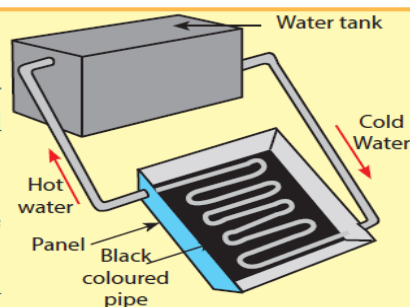


Figure 19.4