



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Science

Grade 7

Week : 15th of 3rd Term

Unit 19 – Sources of Energy(3)

Activity 19.6

Generating electricity with a water current

You will need :- 12V car cassette motor, a LED, a biscuit tin of which the diameter is 14 cm and the height is 10 cm, eight mega bottle lids, eight bolt nails, a small pulley which can be fixed to the axis of the motor twine or any other thread.

Method :-

- Fix the eight mega bottle lids at a similar distance to the biscuit tin with the bolt nails.
- Do not forget to fix the bottle lids towards corner of the biscuits tin, not in the middle.
- Fix the small pulley to the axis of the motor.
- connect the car cassette motor of 12V with the twine thread in a manner as to be able to rotate it.
- Connect a LED to the motor and rotate the turbine with the help of water current.
- Record your observations.
- Increase the speed of the water current and observe the lighting of the LED.

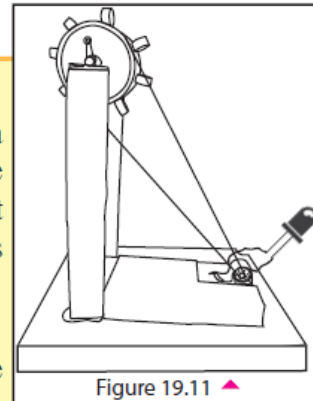


Figure 19.11 ▲

Assignment 19.2

- List out the advantages and disadvantages of renewable energy sources.

➤ **Non-renewable energy sources**

- Mention a few Non-renewable energy sources

Assignment 19.2

- Prepare a table that shows the advantages and disadvantages of non-renewable energy sources.

➤ **Sustainable usage of energy sources**

- Mention a few strategies for sustainable usage of energy sources.