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FREE LEARNING NOTES FOR ZAMBIA

GRADE 2 · TERM 2

Science

Saving energy

Lesson notes for learners · Competence-Based Curriculum

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Energy helps us light rooms, cook food and keep warm. If we use it carelessly, we waste it. In this note you will learn about devices and habits that help us save energy.

AFTER THESE NOTES YOU SHOULD BE ABLE TO

- Name some energy-saving devices and say what they do
- Say why saving energy is important
- Practise good habits for saving energy

KEY WORDS

Energy	What helps us light rooms, cook food and keep warm.
Energy saving	Using energy carefully and not wasting it.
Solar panel	A device that uses the sun to make energy.
Switch off	Turn a light or machine off when you are not using it.

1 Devices that save energy

People in the community sometimes use energy carelessly. How can we teach them to save it. We can show them devices that help.

Some energy-saving devices are LED bulbs, solar panels, solar lamps, improved cooking stoves and rechargeable lamps. Energy-saving braziers also use less charcoal.

Compare an ordinary bulb with an energy-saving bulb. Which one is brighter. Which one uses more energy. Compare an ordinary brazier with an energy-saving brazier. Which one uses up charcoal faster.

With your group, look for energy-saving devices at home or at school. Talk about how they help save energy.

Device	How it helps
LED bulb	Uses less electricity
Solar panel	Uses the sun
Solar lamp	Uses the sun
Improved stove	Uses less fuel
Rechargeable lamp	Can be used again and again

Figure 1. Energy-saving devices

2 Why we save energy

Energy-saving devices help us in four ways. They reduce the electricity we use. They save money. They protect the environment. They reduce pollution.

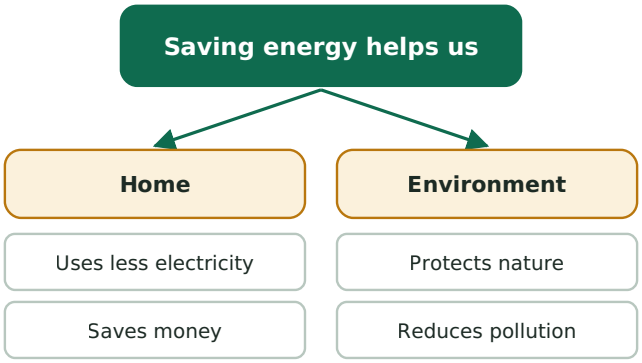


Figure 2. Why saving energy helps

3 Good habits for saving energy

You are about to go to school and you are the last person to leave the house. What will you do to save energy. Switch off the lights.

Energy conservation means saving energy by using it carefully and not wasting it. Here are good habits. Switch off lights when you are not using them. Unplug chargers and cables that are not in use. Open windows and curtains to use natural light in the day instead of electricity. Cook on an improved stove. Turn off a generator when it is not needed. Dry clothes on the line instead of using a drying machine. Walk or cycle for short distances instead of using a vehicle.

Remember this reminder: use energy wisely and switch off when not in use.

TRY THIS

At home, look for one light or appliance that is on when no one is using it. Switch it off and tell your family why.

REMEMBER

- Energy lights rooms, cooks food and keeps us warm
- LED bulbs, solar lamps, solar panels and improved stoves save energy
- Saving energy reduces electricity use, saves money and protects the environment
- Switch off lights and appliances when not in use

? Check yourself

1. Name one energy-saving device.
2. Name one thing energy is used for at home.
3. What should you do to a light when you leave the room.
4. Why is saving energy good for the environment.
5. Mutale is the last person to leave the house for school. The bedroom light is on, a phone charger is plugged in and the curtains are closed. (a) What will she do to the light. (b) What will she do to the charger. (c) What will she do on the next sunny day instead of using the light.
6. Two families cook with charcoal. One uses an ordinary brazier and the other uses an energy-saving brazier. After one week the first family has used up more charcoal. (a) Which brazier uses charcoal faster. (b) Which one saves energy. (c) Name one other device that saves energy.

ANSWERS

1. LED bulb, solar panel, solar lamp, improved stove or rechargeable lamp.
2. Lighting, cooking or keeping warm.
3. Switch it off.
4. It protects the environment and reduces pollution.
5. (a) Switch it off. (b) Unplug it. (c) Open the curtains to use natural light.
6. (a) The ordinary brazier. (b) The energy-saving brazier. (c) An LED bulb or a solar lamp.

Written by 25Schools to follow the Grade 2 Science syllabus of the Zambian competence-based curriculum. Free for learners to read, download and share. More notes and quizzes at 25schools.com.