

School Activity

Energy quiz questions

1. What is the most widely used energy resource in South Africa?

- a. Natural Gas
- b. Oil
- c. Coal
- d. Solar

2. Which of the following are non-renewable forms of energy?

- a. Coal
- b. Oil
- c. Uranium
- d. Natural gas
- e. All of the above

3. Which of the following environmental problems are related to the combustion of fossil fuels?

- a. Smog
- b. Acid rain
- c. The greenhouse effect (increase in carbon dioxide levels causing the warming of the Earth's surface)
- d. All of the above

4. Which of the following renewable sources of energy are currently being used in our country?

- a. Solar
- b. Biomass (energy from plants and animals)
- c. Wind energy
- d. Hydropower
- e. Geothermal energy

5. Which of the following is the most efficient?

- a. Light bulb
- b. An energy saving bulb
- c. Candle

6. If a device is 100% efficient, this means:

- a. It wastes 100% of the energy going onto it
- b. It wastes none of the energy going on it
- c. It is expensive

7. How can we calculate efficiency

- a. Useful energy/wasted energy x 100
- b. Useful energy/total energy x 100
- c. wasted energy/total energy x 100
- d. total energy x 100

8. What is electricity or electrical energy?

- a. Movement of atoms
- b. Movement of neutrons
- c. Movement of negatively charged electrons
- d. All of the above

9. Which of the following can be used as source of energy?

- a. The sun
- b. Fossil fuels
- c. Renewable energy
- d. All of the above

10. What kind of energy comes from the sun?

- a. Wind energy
- b. Photovoltaic cells
- c. Solar energy
- d. All of the above

11. The conversion of energy from one form to another often releases which type of energy?

- a. Sound
- b. Light
- c. Heat
- d. Wind

12. Energy in fossil fuels is stored as?

- a. Mechanical energy
- b. Electrical energy
- c. Kinetic energy
- d. Chemical energy

13. Energy is the

- a. Ability to cook
- b. Ability to do work
- c. Ability to switch off
- d. Ability to move objects

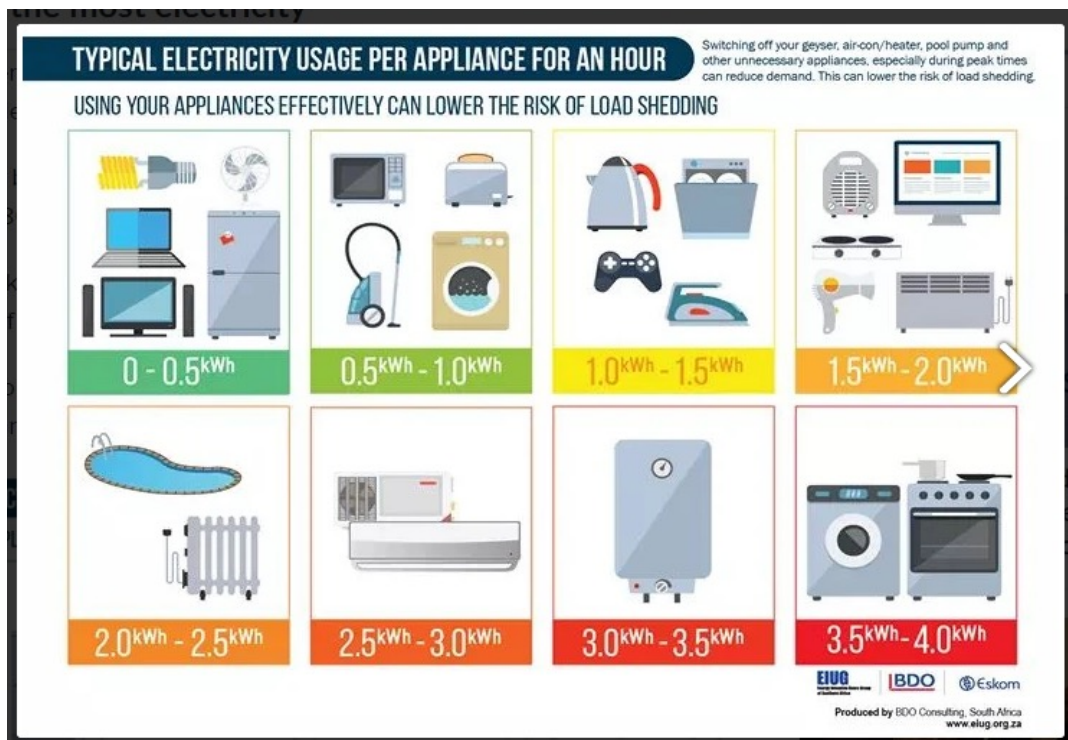
14. What is the SI unit of energy?

- a. Calorie
- b. Joule
- c. Newton
- d. Kilowatt

15. Which of these is not a basic form of energy?

- a. Electrical
- b. Chemical
- c. Nuclear
- d. Temperature

Now that you learned about energy efficiency, please think and discuss how YOU can reduce the use of electricity at home as well as other alternative ways of producing green energy.



City Power has provided a calculator showing which appliances use the most electricity. Please check it and calculate how much you use at home and how you can reduce that. Let us act responsibly.