



## Energy Quiz

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1. What is energy?

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2. Can energy be created or destroyed? (please circle)

(A) YES      (B) NO

3. Most energy conversions produce... (please circle)

(A) MOTION      (B) SOUND      (C) HEAT      (D) LIGHT

4. Where does all our energy come from? (please circle)

(A) FOOD      (B) SUN      (C) FOSSIL FUELS      (D) INSIDE THE EARTH

5. How do plants get their energy?

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6. Where does the energy of your body ultimately come from?

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7. What is electricity?

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8. How do most Australian electricity power plants get their energy? (please circle)

(A) WATER      (B) ELECTRICITY      (C) FOSSIL FUELS      (D) WIND



## Energy Quiz

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9. Where does coal come from?

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10. What are the advantages of using coal for electricity production? (please circle)

- (A) Australia has large reserves of coal                      (B) Low cost of fuel produces cheap electricity  
(C) Electricity can be produced when needed              (D) All of the above

11. What are the disadvantages of using coal?

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12. The energy in fossil fuels such as coal is stored as... (please circle)

- (A) CHEMICAL ENERGY      (B) ELECTRICAL ENERGY      (C) THERMAL ENERGY      (D) NUCLEAR ENERGY

13. What does renewable energy mean?

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14. What types of energy can solar panels utilise? (please circle)

- (A) HEAT AND LIGHT      (B) CHEMICAL      (C) WIND      (D) MECHANICAL

15. Which type of electricity consumption uses the most energy? (please circle)

- (A) LIGHTING      (B) HEATING WATER      (C) HEATING AND COOLING ROOMS      (D) REFRIGERATION



## Energy Quiz

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### Answers:

1. Energy is needed to do 'work'. It is needed for any physical movement, to make devices such as appliances and cars function, to keep the house warm, to cook food, etc.
2. (B)
3. (C)
4. (B)
5. From the sun's light energy through the process of photosynthesis.
6. From the chemical energy in our food which has been passed through the food web from plants and the sun's light energy.
7. Moving electrons.
8. (C)
9. Ancient plants and animals which were buried and underwent changes over millions of years to form fossil fuels.
10. (D)
11. Coal as a fossil fuel will not last forever. Burning coal produces pollutants which cause acid rain. Burning coal produces carbon dioxide and other greenhouse gases which are contributing to global warming.
12. (A)
13. Any source of energy that doesn't consume the finite resources of the Earth and can be easily and quickly replenished. Includes solar, wind, hydro and bioenergy.
14. (A)
15. (C)

