

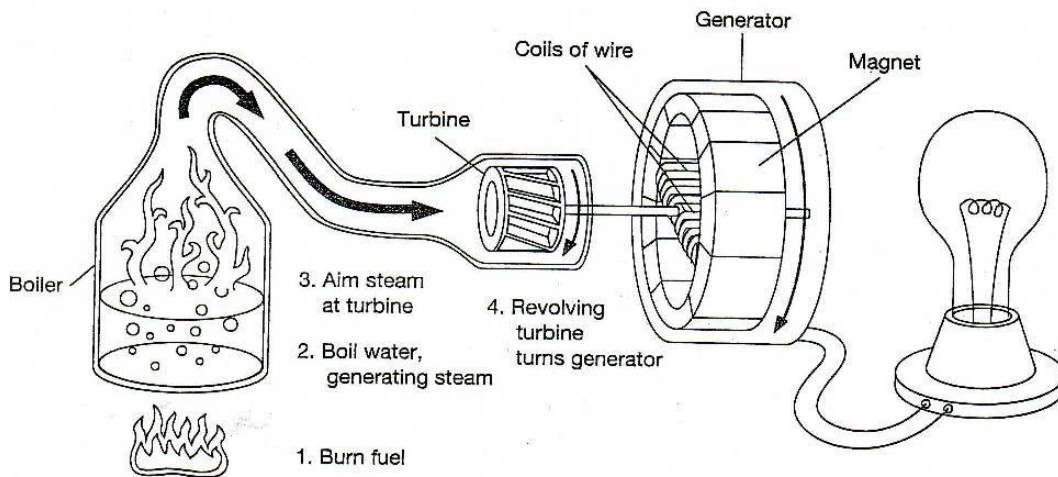
Energy Transformations

Choose the sequence of energy forms that best fits each item.

- | | |
|---------------------------|--|
| _____ 1. Hairdryer | a. chemical energy - electrical energy - mechanical energy |
| _____ 2. Electric saw | b. electrical energy - thermal energy |
| _____ 3. Toaster | c. electrical energy - mechanical energy |
| _____ 4. Shredder | d. mechanical energy - electrical energy |
| _____ 5. Coffee Pot | |
| _____ 6. Windmill | |
| _____ 7. iPod | |
| _____ 8. Speaker Vibrates | |

A Steam Powered Generator

The diagram below shows the steps involved in using the energy in steam to generate electricity. Use the diagram to help you fill in the blanks in the story. Here are the forms of energy that fit into the blanks, in random order: **chemical, electrical, heat, light, and mechanical**. Some words may be used more than once.



- (1) _____ energy from gas, oil, or coal provides
- (2) _____ energy to water to produce steam. A turbine changes the energy of the steam into the (3) _____ energy of the rotating turbine and generator. The generator converts this energy into
- (4) _____ energy. The lamp is an energy converter, changing (5) _____ energy to (6) _____ energy and
- (7) _____ energy.