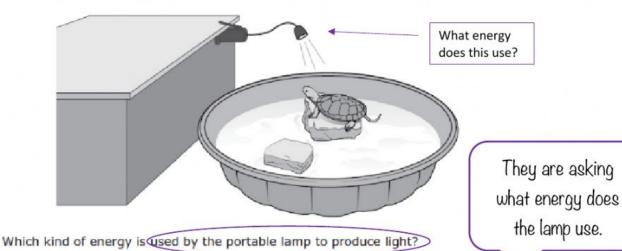
A science class is observing a pet turtle in a small plastic pool. The students turn on a portable camping lamp that is clamped on to a counter next to the pool.



- F Mechanical energy, because the lamp is clamped on to the counter
- G Thermal energy, because the lamp increases the temperature of the water
- H Electrical energy, because the lamp is battery-operated
- J Sound energy, because the lamp vibrates when clicked on

Eight activities that use energy are listed in the box.

- A bus driver starts a bus.
- 2. A soccer player kicks a ball.
- 3. A teacher writes notes on a chalkboard.
- 4. A chef stirs soup on a stove.
- 5. A bird flaps its wings and chirps to attract a mate.
- 6. A basketball referee blows a whistle.
- A waiter pours water into a glass.
- 8. A person changes the channel on a TV.

Thermal = heat

Mechanical = moving

Electrical = electricity

Sound = noise

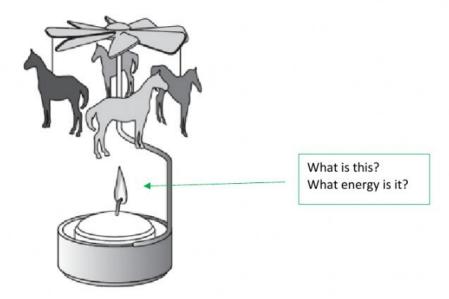
Each of these activities requires the use of which kind of energy?

- A Thermal
- **B** Mechanical
- C Electrical
- **D** Sound

There is ONE energy used by all these things



An old-fashioned metal toy is shown below. When the candle is lit, the carousel of horses begins to turn.



Which of these correctly describes the energy that makes the carousel turn?

- F Heat from the candle produces currents of warm air.
- G Heat from the candle produces electrical energy.
- H Light from the candle produces mechanical energy.
- J Light from the candle produces wind currents.

The fire produces what energy?

A student uses a set of headphones to listen to music. Which of these objects uses the same source of energy as the headphones?

- A A flute using wind energy
- B A piano using mechanical energy
- C A keyboard using electrical energy
- D A teapot using thermal energy



The headphones USE this energy!

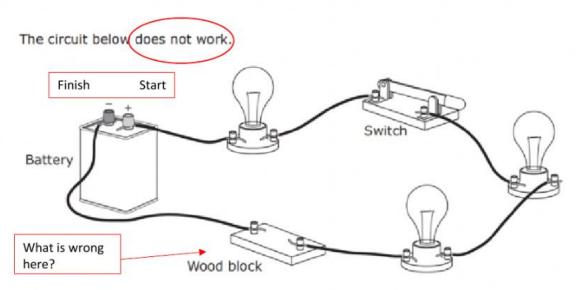


## Which of these is the best conductor of electricity?

- F Glass rod
- G Cotton string
- H Plastic tubing
- J Copper penny

Conductors help flow electricity and heat





Which procedure would most likely allow the bulbs to light?

- A Open the switch and then connect the two wires that are attached to the wood block
- B Switch the positions of the two wires that are connected to the battery and then open the switch
- C Move the switch closer in the circuit to the battery
- D Connect the two wires that are attached to the wood block

How can you make this work?
For a circuit to work you need to make a circle

**BLIVEWORKSHEETS**