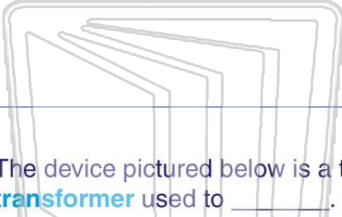




Name _____ Class _____ Date _____

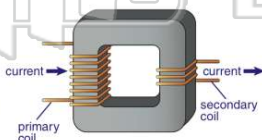
1 What is the relationship of a **motor** to a **generator**?

- A they do the same thing
- B they make electricity
- C they are opposites
- D one can replace the other



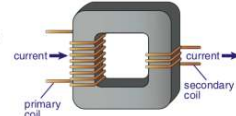
3 The device pictured below is a type of **transformer** used to _____.

- A increase current
- B decrease voltage



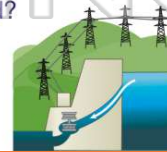
2 What **evidence** is there in this diagram that this is a **step-down transformer**?

- A more wire loops where current goes in
- B current goes in on the left and out on the right
- C more wire loops where current goes out
- D the magnet is bigger on one side



4 In the diagram below, **falling water** is being used to produce **electricity**. How is this achieved?

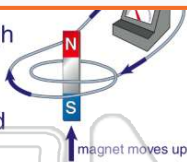
- A falling water runs a motor
- B falling water



PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7 **B** a magnet moves through the coils of wire
C a conductor moves through a magnetic field
D all of the above



- A The bell has to have a step-down transformer in it.
- B The bell has to have a generator in it.
- C The bell has to have a small motor in it.
- D The bell has to have a step-up transformer in it.

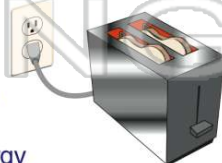
9 The **rate** at which electrical energy is transformed to **another form** of energy is called _____.

- A current
- B generation
- C power
- D ohms



10 An electric toaster **requires power** to convert _____.

- A heat energy to mechanical energy
- B electrical energy to mechanical energy
- C electrical energy to thermal energy
- D heat energy to thermal energy





ANSWER KEY

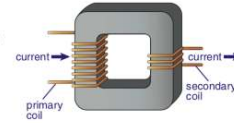
What is the relationship of a **motor** to a **generator**?

- A they do the same thing
- B they make electricity
- C they are opposites
- D one can replace the other

(C)

What **evidence** is there in this diagram that this is a **step-down transformer**?

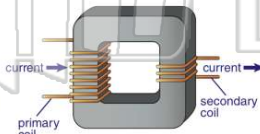
- A more wire loops where current goes in
- B current goes in on the left and out on the right
- C more wire loops where current goes out
- D the magnet is bigger on one side



(a)

The device pictured below is a type of **transformer** used to

- A increase current
- B decrease voltage
- C decrease resistance
- D increase resistance



(b)

In the diagram below, **falling water** is being used to produce **electricity**. How is this achieved?

- A falling water runs a motor
- B falling water turns an engine
- C falling water turns a turbine



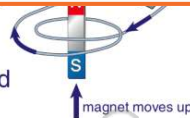
(c)



PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

- A the coils of wire
- B a conductor moves through a magnetic field
- C a conductor moves through a magnetic field
- D all of the above



(C)

- A step-down transformer in it.
- B The bell has to have a generator in it.
- C The bell has to have a small motor in it.
- D The bell has to have a step-up transformer in it.

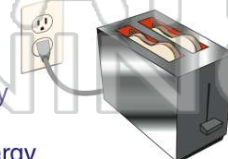
The **rate** at which electrical energy is transformed to **another form** of energy is called _____.

- A current
- B generation
- C power
- D ohms



An electric toaster **requires power** to convert _____.

- A heat energy to mechanical energy
- B electrical energy to mechanical energy
- C electrical energy to thermal energy
- D heat energy to thermal energy



(c)