Electromagnetism

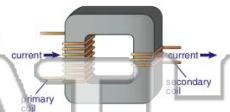
Sci F

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

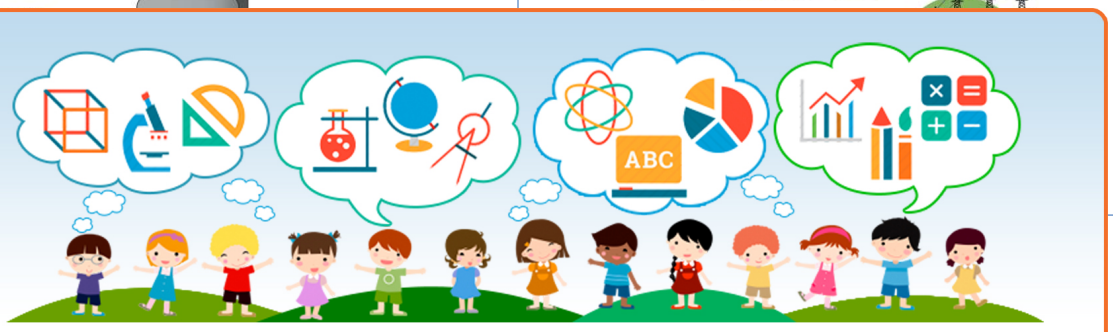
2 What **evidence** is there in this diagram that this is a **step-down transformer**?



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

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

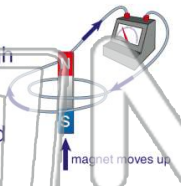
4 In the diagram below, **falling water** is being used to produce **electricity**. How is this achieved?



5

7

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



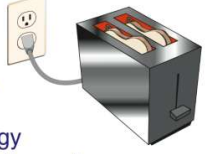
work on **12 volts** when it is connected to household current of **110 volts**?

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

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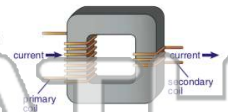

A more wire loops where current goes in
B current goes in on the left and out on the right
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C

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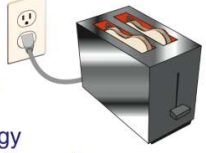

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