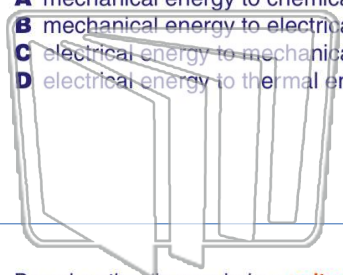




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

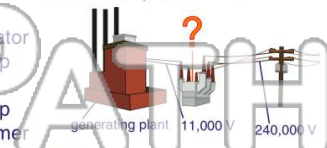
1 A **generator** is able to convert \_\_\_\_\_.

**A** mechanical energy to chemical energy  
**B** mechanical energy to electrical energy  
**C** electrical energy to mechanical energy  
**D** electrical energy to thermal energy



2 The diagram below shows an **electric-generating plant**. Based on information in the diagram, what **device** is drawn below the question mark?

**A** a generator  
**B** a step-up motor  
**C** a step-up transformer  
**D** an electromagnet



3 Based on the diagram below, **voltage** is \_\_\_\_\_ before it enters the **house**.



4 The **device** that **changes the voltage** on the **electrical pole** shown below is a \_\_\_\_\_.

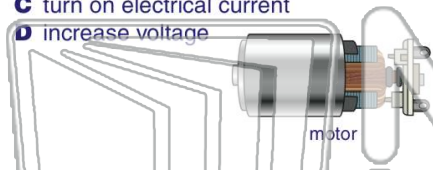


## PREVIEW

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

7

**A** keep an object from moving  
**B** turn an axle  
**C** turn on electrical current  
**D** increase voltage

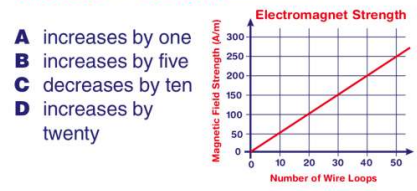


8 True or false?

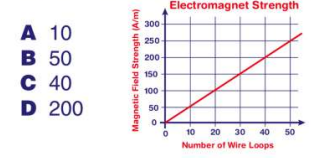
**A** true  
**B** false



9 In a solenoid, wire is used to create a magnetic field. According to the graph below, with **each wire loop**, the **strength** \_\_\_\_\_.



10 Based on the chart below, approximately **how many loops** of wire would be required to increase the magnetic field strength to **200 amperes/meter**?

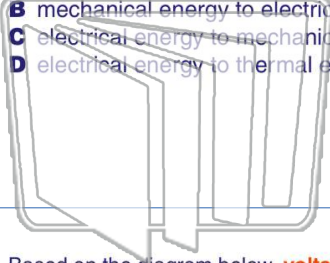




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

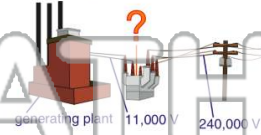
1 A **generator** is able to convert \_\_\_\_\_.

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



2 The diagram below shows an **electric-generating plant**. Based on information in the diagram, what **device** is drawn below the question mark?

- A a generator
- B a step-up motor
- C a step-up transformer
- D an electromagnet



3 Based on the diagram below, **voltage** is \_\_\_\_\_ before it enters the **house**.



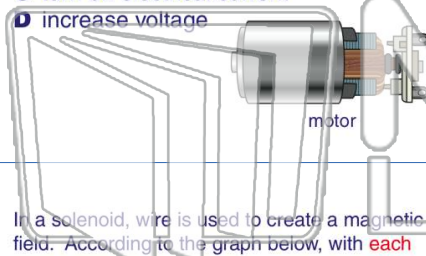
4 The **device** that **changes the voltage** on the **electrical pole** shown below is a \_\_\_\_\_.



## PREVIEW

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

- A keep an object from moving
- B turn an axle
- C turn on electrical current
- D increase voltage



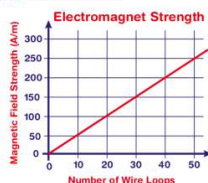
True or false?

- A true
- B false



9 In a solenoid, wire is used to create a magnetic field. According to the graph below, with **each wire loop**, the **strength** \_\_\_\_\_.

- A increases by one
- B increases by five
- C decreases by ten
- D increases by twenty



10 Based on the chart below, approximately **how many loops** of wire would be required to increase the magnetic field strength to **200 amperes/meter**?

- A 10
- B 50
- C 40
- D 200

