



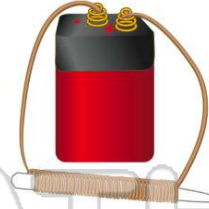
Name _____ Class _____ Date _____

1 What can be created by an **electric current** running through a **wire**?

- A a magnetic field
- B insulator
- C compass
- D iron filings

2 The relationship of **magnetism** to **electricity** is referred to as _____.

- A generation
- B transformation
- C electromagnetism
- D magnetic force



3 The picture below is of a **wind turbine**. What would this turbine be **used** for?

- A convert chemical energy to mechanical energy
- B convert mechanical energy to chemical energy
- C convert mechanical energy



4 The word **solenoid** is another name for _____.

- A an electromagnet
- B a motor
- C a generator
- D a simple machine



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7 _____
_____ that are occurring.

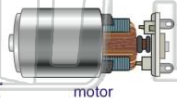
- A electrical to mechanical to electrical
- B mechanical to electrical to mechanical
- C mechanical to chemical to electrical
- D chemical to electrical to mechanical

- A strengthen a magnetic field
- B warm up the magnet
- C keep the magnet from freezing up
- D increase the electrical energy



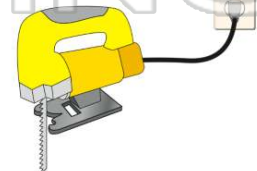
9 In a working **electric motor**, _____.

- A a solenoid converts AC to DC electric power
- B only permanent magnets are used
- C the polarity of the electromagnet is reversed
- D the polarity of the permanent magnet is reversed



10 In the diagram below, a man is using an **electrical saw**. In order for this saw to work, it would have to contain a(n) _____.

- A turbine
- B generator
- C engine
- D motor





ANSWER KEY

What can be created by an **electric current** running through a **wire**?

- A a magnetic field
- B insulator
- C compass
- D iron filings

(a)

The relationship of **magnetism** to **electricity** is referred to as _____.

- A generation
- B transformation
- C electromagnetism
- D magnetic force

(c)



The picture below is of a **wind turbine**. What would this turbine be **used** for?

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



(c)

The word **solenoid** is another name for _____.

- A an electromagnet
- B a motor
- C a generator
- D a simple machine

(a)



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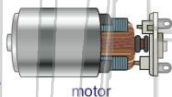
- A electrical to mechanical to electrical
- B mechanical to electrical to mechanical
- C mechanical to chemical to electrical
- D chemical to electrical to mechanical

- B warm up the magnet
- C keep the magnet from freezing up
- D increase the electrical energy



In a working **electric motor**, _____.

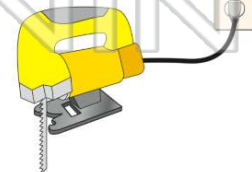
- A a solenoid converts AC to DC electric power
- B only permanent magnets are used
- C the polarity of the electromagnet is reversed
- D the polarity of the permanent magnet is reversed



(c)

In the diagram below, a man is using an **electrical saw**. In order for this saw to work, it would have to contain a(n) _____.

- A turbine
- B generator
- C engine
- D motor



(d)