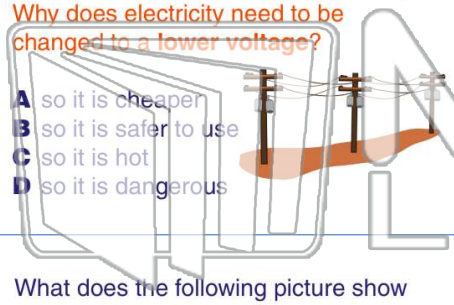
Electricity and magnetism

Sci D

Name_____ Class_____ Date_____

1 A **transformer** can change high voltage electricity into lower voltage electricity. Why does electricity need to be changed to a lower voltage?



A so it is cheaper
B so it is safer to use
C so it is hot
D so it is dangerous

2 **Magnetism** is the property of attracting or repelling certain kinds of materials. What is the area around a magnet called?

A magnetic field
B magnetic space
C magnetic ground
D magnetic gap

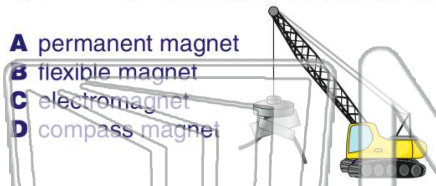
3 What does the following picture show you about **magnetic poles** on magnets?

4 _____ **acts as a large magnet**, with its magnetic fields being strongest at its poles, which are not exactly at the

5

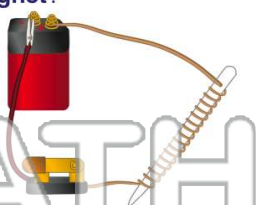
7

by electricity. What type of **magnet** is it?



A permanent magnet
B flexible magnet
C electromagnet
D compass magnet

of an **electromagnet**?



A coil of string
B coil of wire
C coil of clay
D coil of rubber

9 What is one way to make an electromagnet **stronger**?

A tighten coils
B loosen coils
C decrease the number of coils
D increase the number of coils

10 **Turbines** moved by wind, water, or steam are used to **turn** _____.

A electrical energy into chemical energy
B mechanical energy into electrical energy
C electrical energy into moving energy
D current energy into direct energy

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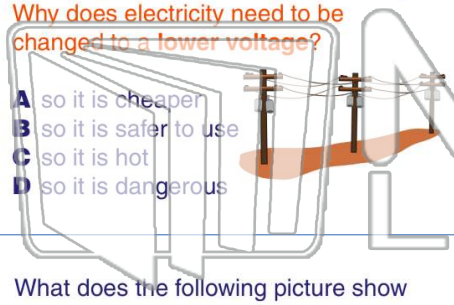

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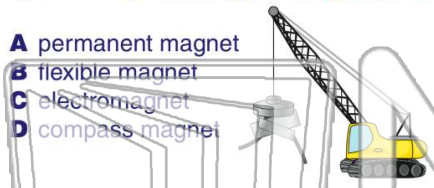

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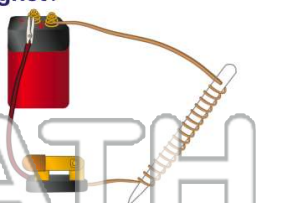

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