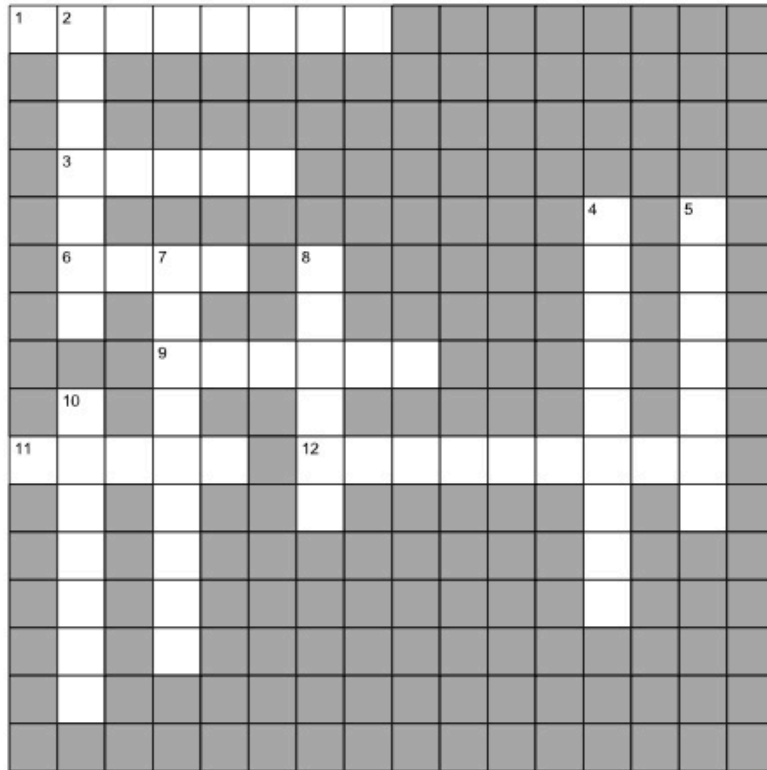




READ-A-THON

February 27&28, 2014

Use the Force



Across

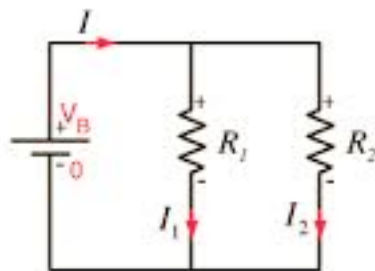
1. In ___ circuits, additional branches decrease resistance.
3. Similar poles ___ each other.
6. Loops of wire stacked one on top of another
9. In ___ circuits, additional resistors increases resistance.
11. The extent of a magnet's force.
12. Copper is a good __. It allows the flow of electrical charge

Down

2. Opposites ____.
4. An attractive force.
5. Converts chemical to electrical energy.
7. Glass is an ___; it resists the flow of electrical charge.
8. Can be open/closed to complete/disrupt a circuit.
10. A complete ___ allows the flow of electricity.

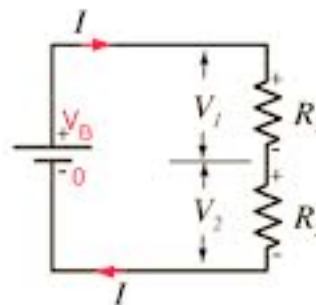
1. Parallel
3. Repel
6. Coil
9. Series
11. Field
12. Conductor

2. Attract
4. Magnetism
5. Battery
7. Insulator
8. Switch
10. Circuit



Parallel resistors

$$\frac{1}{R_{equivalent}} = \frac{1}{R_1} + \frac{1}{R_2}$$



Series resistors

$$R_{equivalent} = R_1 + R_2$$

In these circuit diagrams, V = voltage, I = current, and R = resistor.