

Name: \_\_\_\_\_

Period: \_\_\_\_\_

**HW—10:AT — Ch 27 Guided Reading**  
**Mr. Murray, IPC**  
[www.aisd.net/smurray](http://www.aisd.net/smurray)

**Assigned: Fri., 3/12/04**  
**Due: Thurs., 3/23/04**

1. Does heat go from high to low temperature or from low to high temperature?
2. When two objects are touching they can transfer heat which of the following: conduction; convection; or radiation?
3. Materials that do not allow heat to transfer are called:
4. When fluids transfer heat through moving currents we call this: conduction; convection; or radiation?
5. When gases get hot they: rise up or fall down?
6. The transferring of heat by electromagnetic waves (two objects don't need to be touching): conduction; convection; or radiation?
7. Which has less energy: a hot or cold object?
8. A stove transfers heat to a pan of water through: conduction; convection; or radiation?

### Work on back

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**Don't forget the front side**

Using the formula box on the right, calculate the current of a circuit that has a 12 volt battery and 3 ohms of resistance.

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Variables:  
 V =  
 R =

Equation:

Solve:

**Ohm's Law:**

$$\text{Current (in amps)} \rightarrow I = \frac{V}{R}$$

Voltage (in volts) ←  
 Resistance (in ohms) ←

*Current equals the voltage divided by the resistance.*

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