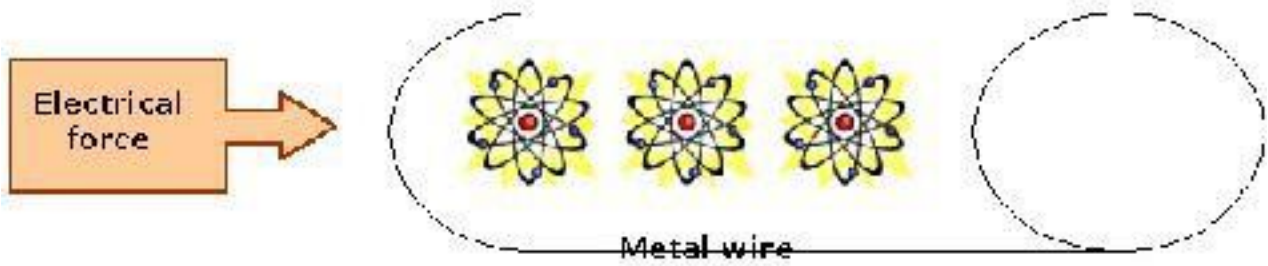
Electron Flow

Electricity All Around Us
Learner Worksheet

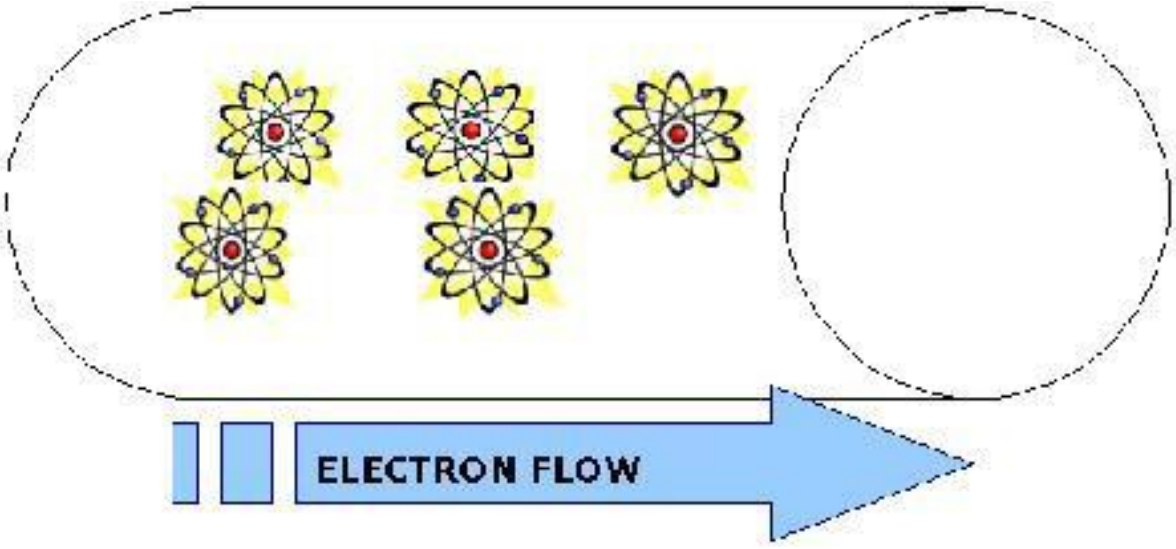
Name:

Diagram Questions:

1. On this diagram, draw an arrow to show the movement of the electrons:



2. On this diagram, use an arrow to show where the electrical force would be.



Questions:

1. **What happened when you let two negatively charged balloons fall together? Did they attract or repel each other?**

_____

_____

_____

2. **What happened when you gave your balloons more charge and then let them fall together? How does this compare to what happened in the first question?**

_____

_____

_____

3. **What happened when you tried this with balloons that had no charge?**

_____

_____

_____

4. **Some materials, like metal, have atoms with electrons that move easily from atom to atom. True or false?**

_____

5. **Some materials, like rubber or plastic, have electrons that move from atom to atom. True or false?**

_____

6. **Which objects would make good conductors? Put a check mark in the appropriate column.**

Object	Good Conductor	Poor Conductor
Plastic spoon		
Copper penny		
Rubber house		
Elastic band		
Metal ruler		
Glass jar		
Aluminium pop can		

7. **An electrical force can make electrons move in (choose one):**

Conductive materials non-conductive materials

8. **Voltage is best described as (choose one):**

An electrical force pushing electrons through a conductor

The number of electrons moving through a conductor

The charge (positive or negative) that electrons have as they move