

**NAME:** \_\_\_\_\_  
**PERIOD:** \_\_\_\_\_

**BASIC ELECTRICAL THEORY**

**Directions** – Answer the following questions by writing all responses on this sheet.

1. A. What are electrons?

B. What are neutrons?

C. What are protons?

2. List four of the six forces that free electrons.

A.

B.

C.

D.

3. A. What is attraction?

B. What is repulsion?

4. Determine if each of the following is a conductor, insulator, or semiconductor by writing the corresponding number in the blank.

\_\_\_ A. Rubber

1. Conductor

\_\_\_ B. Germanium

2. Insulator

\_\_\_ C. Glass

3. Semiconductor

\_\_\_ D. Silver

\_\_\_ E. Silicon

\_\_\_ F. Copper

5. What must occur before current can flow through a circuit?