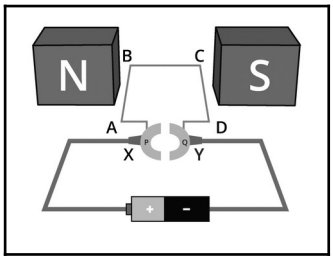
Name:_____

Date Started:_____Date Completed:_____Score:_____

**Learning Activity Sheet**
**Electric Generator**

**I.** Choose the letter of the correct answer and write it in the blank provided before each number.

Use the following diagram to answer items **1–3**.




_____ 1. What is the source of electrical energy?

A. battery
B. brushes
C. commutator
D. permanent magnet

_____ 2. What energy transformation is evident in the diagram?

A. electrical energy to mechanical energy
B. mechanical energy to electrical energy
C. solar energy to chemical energy
D. chemical energy to solar energy

_____ 3. What will happen if two poles of a permanent magnet are not present?

A. The current will change direction.
B. The battery will not be used.
C. The loop will not rotate.
D. The loop will rotate.

_____ 4. Why does the voltage produced by a generator alternate?

A. The changing magnetic field that produces it alternates.
B. Unlike a battery, it produces an alternating current.
C. In effect, it is an AC motor in reverse.
D. The current it produces alternates.

_____ 5. What do you call the device that transforms mechanical energy into electrical energy?

A. generator
B. magnet
C. motor
D. transformer

**II**. Compare and contrast the motor and the generator. Write the similarities in the overlapping parts of the circles and the differences below the given headings.