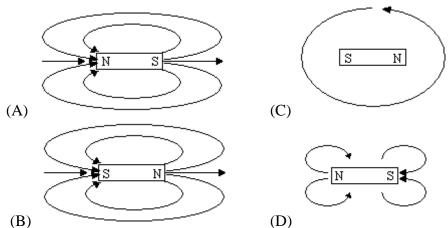
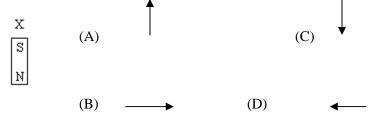
Magnetic Field Check

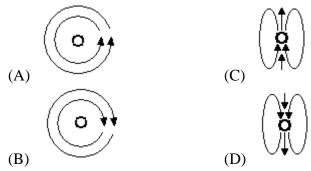
- I. Describe the magnetic field of a permanent magnet.
 - 1. Which of the following materials is NOT magnetic?
 - (A) Iron
- (B) Aluminum
- (C) Steel
- (D) Nickel
- 2. Which picture correctly shows the magnetic field around the magnet?



3. Which arrow correctly shows the direction of the magnetic field at X?



- II. Describe the magnetic field of an electrical current.
 - 4. Which of the following situations will produce a magnetic field?
 - (A) A wire is not connected to a battery and carries no current.
 - (B) A wire is connected to a battery but a switch is open so there is no current flow.
 - (C) A wire is connected so that current flows from the negative to the positive terminal of the battery.
 - (D) A compass is placed next to a wire.
 - 5. Which picture correctly shows the magnetic field around the wire (the circle) if the current is coming *up out of* the paper?



6. Which arrow correctly shows the direction of the magnetic field at X if a wire goes through the page at the circle and current flows *down into* the paper?

