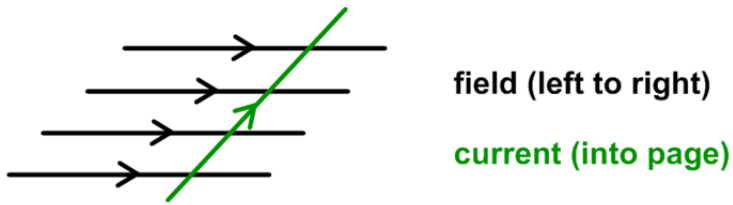


The Motor Effect

Name

1. Current flows through a wire in a magnetic field.

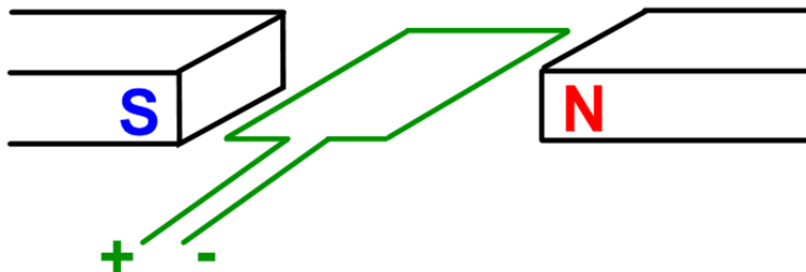


In which direction will the wire experience a force?

2. Draw a wire in the diagram below so that the force it experiences will push it out of the page. Label the direction of conventional current through the wire with an arrow.



3. Current flows in a loop of wire between two magnets.



- a. Add arrows to the green wire showing the direction of conventional current around the loop.
- b. In which direction will the left side of the loop experience a force?
- c. In which direction will the right side of the loop experience a force?
- d. What will happen to the loop?