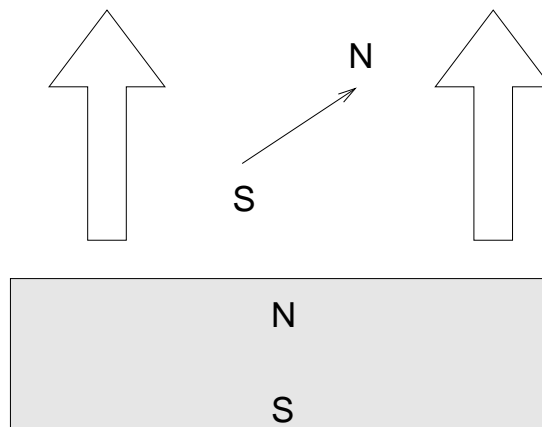


1. Magnetic Needles Concepttest



What happens to a magnetic needle placed in a uniform magnetic field?

- a) nothing
- b) aligns with the field (N points upward)
- c) aligns opposite the field (N points downward)
- d) oscillates back and forth
- e) is pushed upwards
- f) is pushed downwards

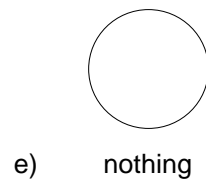
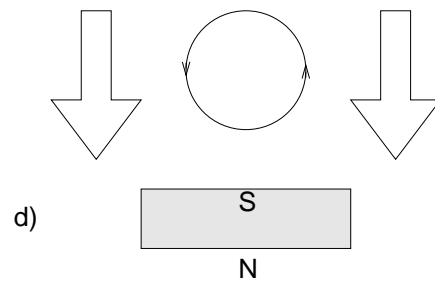
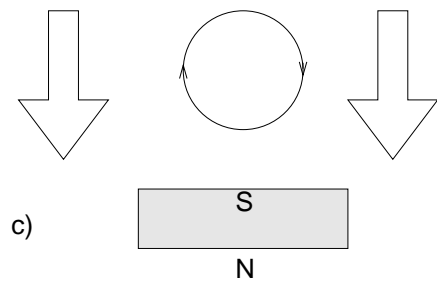
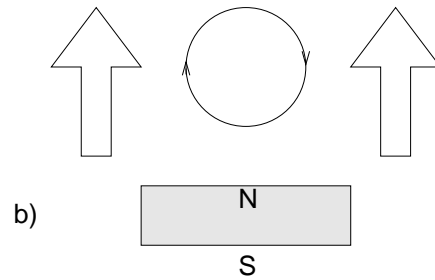
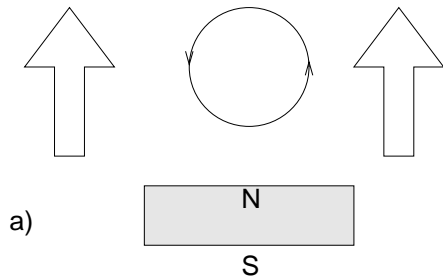
2. Current Loops Concepttest

Predict how the current loop moves, when the current is turned on .

Your choices are (a) rotate so the bottom of the loop comes out of the page

(b) rotate so the top of the loop comes out of the page

(c) does not move



3. Nonuniform Magnetic Field Concepttest

Predict which direction the magnetic needle is “pushed” in the nonuniform magnetic field .

