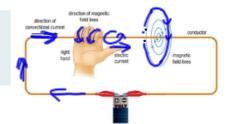
SPH3U 12.2 Oersted's Discovery

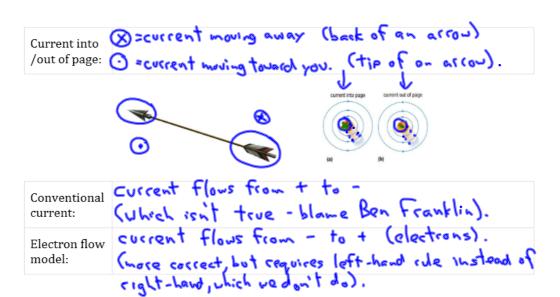
1. Oersted's principle

Oersted's principle:	When current runs through a straight conductor, it creates a circular magnetic field around it.
Right-hand rule:	tells you what direction the magnetic field goes in.

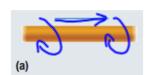
Right-Hand Rule for a Straight Conductor

If your right thumb is pointing in the direction of conventional current, and you curl your fingers forward, your curled fingers point in the direction of the magnetic field lines.



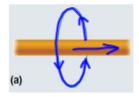


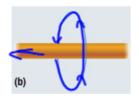
Draw the magnetic field for each diagram.

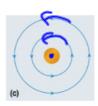




Draw the direction of the conventional current for each diagram. \\









WE WERE GOING TO USE THE TIME MACHINE TO PREVENT THE ROBOT APOCALYPSE, BUT THE GUY WHO BUILT IT WAS AN ELECTRICAL ENGINEER.

Homework: page 556: #1-2, 5, 7