Hiro Shimoyama 1

The Magnetic Field and its Properties

		T.A	
Course Number:		Date:	
1. Static case	ts, and discuss the basic proper	•	
Pick up random-shaped	d magnets. How do you determ	ine N- and S-poles?	
• Experiment –	Magnotic Field I		
	ee different shapes. Put a magn	et under iron sands, and sketch th	e

Questions:

▲ Did you obtain the predicted magnetic field lines?

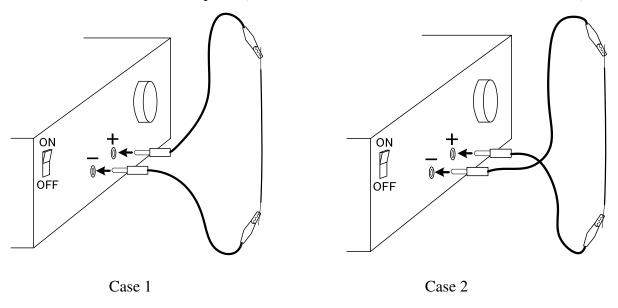
Hiro Shimoyama 2

2. Magnetic field produced by a current

Discuss how you find the direction of current flow.
Discuss how you find the direction of the magnetic field created by the above current.

• Experiment – Magnetic Field II

Using a compass, find the direction of the magnetic field. Sketch the directions of current and those of the compass. (**Do not use more than 3 A for the current source.**)



Questions:

▲ Did you obtain the predicted result?

From the results, conclude about the magnetic field produced by a current.					