

**University of Maryland
Department of Physics**

**Spring 2002
Physics 122**

**Dr. E. F. Redish
Assignment 5A**

NAME _____ **SECTION** _____

In lab this week you studied magnets and the forces they put on each other. Below is a statement and drawing from Leah explaining her model of a magnet.

“A magnet has two ends, called a north pole and a south pole. The north pole is positively charged, and the south pole is negatively charged. Throughout the magnet there are atoms with positive and negative charge, but in the north pole there are more positives than negatives, and in the south pole there are more negatives than positives. It’s almost like a positive charged piece of tape attached to a negative charged piece of tape except it stays charged a lot longer.”



1. (6 pts) Explain at least three things you could do to test Leah’s model using equipment available in the lab room. Include in your answer all the possible results and whether they agree with her model, disagree with her model, or do neither.
2. (4 pts) What experiences do you have from everyday life that could bear on Leah’s model? Explain if they agree or disagree with this model.