

Name _____

E. Activity Guide.

Note: If you see * that means do whatever the directions say and have a teacher, parent, chaperone, or explainer check and initial that you did it.**

Go to the “Magnetic Sculpture” area.

1. Take off any metal nuts and put them into the large bowl. Then see how many metal nuts you can get to stick together one on top of another. *** _____
2. Make an arch with the metal nuts from one side of the magnet to the other. *** _____
3. Are the metal nuts permanent or temporary magnets? _____

Move to the “Magnetic Field Visualization” display.

1. Hold the bar magnet under the dish of oil and tiny metal pieces. Make the metal particles stick up like the back of a porcupine. *** _____
2. Place the U shaped magnet onto the flat surface with the little arrows under it. Do all of the little arrows point toward the North? Yes/No _____
3. Move the magnets away from the little arrows. Use just your fingers and get the little arrows to change their directions. You may not hit or touch the surface. Could you make the arrows move? Why not? a. I am not at the north pole, b. fingers are not magnetic, c. The earth is upside down.

Move left to the “Conductors and Insulators” display.

1. Move the bar switch on the left to turn on the light. *** _____
2. Which of the 4 bars can turn on the light by conducting electricity? There might be more than one answer. a. Aluminum b. plastic c. wood d. brass _____

Go to the “Electrical Circuits” activity.

1. Use 2 different wires and hook them up to make a wheel spin clockwise. *** _____
2. Use 2 small wires and connect from the wheel to a yellow light and make the light go on. *** _____ Do not pull by the wire to take apart, pull on the hard plastic part.
3. An atom is a lot like: a. a ball b. a dog bone c. the solar system d. a snake _____