

Name: _____ Date: _____ TOC: _____

Magnetic Pole Experiment

Magnetic Bowling

This activity will help you investigate the power of magnetic polarity. You will need ten dominoes. Set them up in a triangle like bowling pins. The goal is to try to knock over the dominoes by using the repulsion power of two magnets. First, take two magnets: wand magnet and rectangle magnet. Arrange the magnets so the opposite poles are touching. What happens? _____. Now, have same poles touch each other. What happens? _____. Use this method of repulsion to try to knock over the dominoes. NOTE: The magnets must not touch the dominoes before being released. The wand needs to be the pusher, and the rectangle the pushed domino.

How Many Dominoes did you knock down: Try 1: _____ Try 2: _____ Try 3: _____

What could you do to improve the number of pins that fall? _____

FYI:

Permanent magnets can be made into any shape. They can be made into round bars, rectangles, horseshoes, donuts, rings, disks and other custom shapes. While the shape of the magnet is important aesthetically and sometimes for experimentation, how the magnet is magnetized is equally important. For example: **A ring magnet can be magnetized S on the inside and N on the outside, or N on one edge and S on the other, or N on the top side and S on the bottom.** Depending on the end usage, the shape and configuration vary. Copied from <http://www.howmagnetnetwork.com/types.html>