

## Floating Magnets

Name: \_\_\_\_\_

Directions:

Take a piece of clay and push it onto your desk. Take a pencil or wooden dowel and place it in the clay so that it stands up.

1. Take 1 magnet and place it on the pencil or wooden dowel. Take another magnet and place it on the pencil or wooden dowel, but make sure the opposite end is facing down so the magnets will repel each other.

If the 2 magnets get stuck together (are attracted), take them apart and flip one so that they repel! Now measure the distance between the magnets.

distance: \_\_\_\_\_

2. Take the top magnet off of the pencil or wooden dowel. Take another magnet and put the 2 magnets together so they are attracted. Now place them back onto the pencil or wooden dowel so they are being repelled. Measure the distance.

distance: \_\_\_\_\_

3. Now take 3 magnets and put them together and then place them on the pencil or wooden dowel so they are being repelled. Measure the distance.

distance: \_\_\_\_\_

4. Now take 4 magnets and put them together and then place them on the pencil or wooden dowel so they are being repelled. Measure the distance.

distance: \_\_\_\_\_

5. Did the distances change? If so, how much did they change?