

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

## Magnetism

When a magnetic metal is attracted to a permanent magnet, it becomes magnetic also. It can attract other objects but only while it is touching a permanent magnet.

**Directions:** Using a permanent magnet and paper clips, create a paper clip chain. Add paper clips to each other to form a chain through induced magnetism. When the last paper clip will not stick, record how long your chain became. Try different sized permanent magnets to see how long you can make your chain.

1.

The size of my magnet is

\_\_\_\_\_ x \_\_\_\_\_

My first chain was \_\_\_\_\_

paper clips long.

2.

The size of my magnet is

\_\_\_\_\_ x \_\_\_\_\_

My second chain was \_\_\_\_\_

paper clips long.

What do you think would happen if you used larger paper clips? Or smaller paper clips? Explain.

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### Poles

Magnets have two poles: a north pole and a south pole. Play with two bar magnets. Circle the picture that shows the proper arrangement of two bar magnets in order for them to attract.

