

**Make a Paper Clip Magnet (Upper Primary)**

**What You Need:**

- Stapler
- Staples
- Bar magnet
- Large paper clip
- Two pieces of white or lined paper

**What You Do:**

- Squeeze out five or six staples from the stapler on the sheet of paper.
- Open up the large paper clip and hold it horizontally over the staples. Are any of them attracted?
- Now stroke the paper clip in a circular fashion over the top of the paper clip lengthwise 50 times.
- Go slowly over the staples in the same way as before. How many can you pick up. Record the data or the numbers showing the amount attracted.
- Continue stroking the paper clip as before but this time do it 100 times! Do every thing exactly the same as you did before. Did you attract any more staples? Record your results.
- Do the same think again but now stroke the paper clip 150 times with the magnet – always in the same direction!! Record your results.

**Organizing your data or numbers**

**Help your child or student organize the data like this:**

|                          |           |            |            |
|--------------------------|-----------|------------|------------|
| <b>Number of Strokes</b> | <b>50</b> | <b>100</b> | <b>150</b> |
| <b>Staples Attracted</b> |           |            |            |

**Next, make a bar graph out of your data.** ©2020 Science Guy 911 LLC. All rights reserved.

| <b>Number of Strokes</b> | <b>Color the amount of staples attracted - going across</b> |          |          |          |          |          |          |
|--------------------------|---|----------|----------|----------|----------|----------|----------|
|                          | <b>1</b>  | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> |
| <b>50</b>                |   |          |          |          |          |          |          |
| <b>100</b>               |   |          |          |          |          |          |          |
| <b>150</b>               |   |          |          |          |          |          |          |