

Grade 4

RM 2: Experiment B

Question: Are some magnets stronger than others?

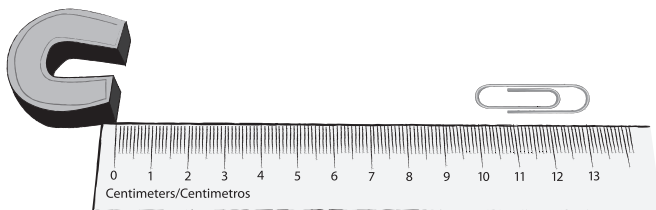
Hypothesis/Prediction: The (horseshoe/bar/ring) magnet is strongest because _____

Materials

- smooth surface such as a desk or tabletop
- horseshoe magnet
- bar magnet
- ring magnet
- small paper clip
- metric ruler

Procedure

1. Place the metric ruler on the desk or tabletop.
2. Position the horseshoe magnet at 0 cm.
3. Place the paper clip with its front edge at 10 cm.

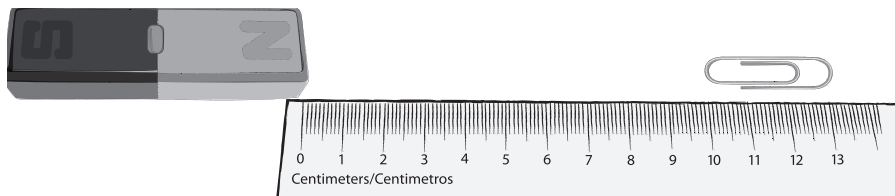


4. Move the paper clip closer to the magnet 1 cm at a time while holding the magnet in place.
5. Remove your hand from the paper clip after every move. This will allow the paper clip to interact with the magnet more freely. Hold the magnet in place throughout the experiment.
6. Observe and record the distance at which the paper clip freely moves toward the magnet and attaches to it.
7. Repeat steps 2–6 two more times.

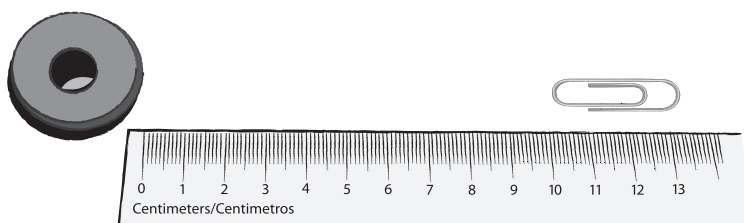
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RM 2: Experiment B continued

8. Repeat steps 1–7 using a bar magnet.



9. Repeat steps 1–7 using a ring magnet.



Data

Type of Magnet	Distance at Which Paper Clip Moved toward Magnet (cm)		
	Trial 1	Trial 2	Trial 3
horseshoe			
bar			
ring			

Conclusion

The _____ magnet was strongest because _____
