

# Displaying a Science Demonstration

**Note:** Kids' science books often call such demonstrations "experiments" but they are not experiments, according to Science Fair guidelines; no hypothesis is needed.

To demonstrate ...  
(some interesting science phenomenon or concept)

A scientific explanation  
(what you learned before you started). Include definitions if appropriate.

What you did

<b>Title</b>	<b>What happened / what you observed; charts, tables, graphs etc.</b>															
<p><b>Purpose</b> To demonstrate magnetic attraction.</p> <p><b>Background Information</b> In a piece of magnetised metal, the atoms are arranged ... etc. In non-metals, the atoms ... etc.</p> <p><b>Procedure</b></p> <ol style="list-style-type: none"> <li>I found 10 items in my kitchen drawer.</li> <li>I tested each one to see if a magnet would attract it.</li> <li>I recorded my results on a chart.</li> </ol> <p><b>Materials</b></p> <ul style="list-style-type: none"> <li>• a bar magnet</li> <li>• a cork</li> <li>• a paper clip</li> <li>• a nickel</li> <li>• a penny</li> <li>• Aluminum foil ... etc.</li> </ul>	<h2>Magnetic Attraction</h2> <h3>Results</h3> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Attracted ?</th> </tr> <tr> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>✓</td> <td></td> </tr> <tr> <td>✓</td> <td></td> </tr> <tr> <td>✓</td> <td></td> </tr> <tr> <td>~~~~~</td> <td></td> </tr> <tr> <td>~~~~~</td> <td></td> </tr> </tbody> </table> <p>Diagram of magnetic forces</p>	Attracted ?		Yes	No	✓		✓		✓		~~~~~		~~~~~		<p><b>Discussion of the Results</b></p> <p>I was surprised that some metallic things like aluminum foil were not attracted by the magnet. I noticed that some really heavy metal objects were attracted by the magnet, but the magnet was not strong enough to pick them up.</p> <p>Non-metallic objects were not attracted to the magnet at all – not even a little bit! ... etc.</p> <p><b>Conclusion</b></p> <p>A magnet will attract some metals but not others. It will not attract non-metals.</p> <p><b>References</b> (Books and other resources)</p> <p><b>Acknowledgements</b> I would like to thank ....</p>
Attracted ?																
Yes	No															
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Clare Brooks '00

"Hands-on" materials  
on display

To demonstrate a science phenomenon or concept that is interesting but already well known and understood (even if not by the student). The demonstration shows how it works and why.