

Electricity and Magnetism Poster Project

Task: Create a standards-based interactive poster of the key concepts related to electricity and magnetism.

Creative Title Standard: (use Physical Science textbook to find standard wording and number) <i>Be sure to include your name and class period on your project.</i>								
<p>a. Investigate static electricity in terms of friction, conduction and induction.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 33%; padding: 5px;">Illustration of friction</td> <td style="width: 33%; padding: 5px;">Illustration of conduction</td> <td style="width: 33%; padding: 5px;">Illustration of induction</td> </tr> <tr> <td style="width: 33%; padding: 5px;">Short description</td> <td style="width: 33%; padding: 5px;">Short description</td> <td style="width: 33%; padding: 5px;">Short description</td> </tr> </table> <p style="text-align: right;">20 points</p>	Illustration of friction	Illustration of conduction	Illustration of induction	Short description	Short description	Short description	<p>b. Explain the flow of electrons sin terms of alternating and direct current.</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin-bottom: 10px;"> <p>Create a Graphic Organizer (comparing and contrasting alternating and direct current)</p> </div> <ol style="list-style-type: none"> 1. Include a labeled picture that illustrates an example for alternating current. 2. Include a labeled picture that illustrates an example for direct current. <p style="text-align: right;">20 points</p>	
Illustration of friction	Illustration of conduction	Illustration of induction						
Short description	Short description	Short description						
<p>c. Explain the flow of electrons in terms of simple series and parallel circuits.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 50%; padding: 5px;">Draw and label a simple series circuit</td> <td style="width: 50%; padding: 5px;">Draw and label a parallel circuit</td> </tr> <tr> <td style="width: 50%; padding: 5px;">List an everyday example</td> <td style="width: 50%; padding: 5px;">List an everyday example</td> </tr> </table> <p>Describe 2 differences between series and parallel circuits.</p> <p style="text-align: right;">20 points</p>	Draw and label a simple series circuit	Draw and label a parallel circuit	List an everyday example	List an everyday example	<p>d. Investigate applications of magnetism.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">Illustrate attraction and repulsion of the poles of magnets.</td> </tr> <tr> <td style="padding: 5px;">Draw and label the parts of an electromagnet.</td> </tr> <tr> <td style="padding: 5px;">Name 3 ways to make an electromagnet stronger.</td> </tr> </table> <p style="text-align: right;">20 points</p>	Illustrate attraction and repulsion of the poles of magnets.	Draw and label the parts of an electromagnet.	Name 3 ways to make an electromagnet stronger.
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Creativity/Neatness/Use of Color: **10 points**

Total _____ / 100

Electricity & Magnetism Poster Projects are due Tuesday, May 20th

You may present your project on the day of your final exam for 10 extra credit points.