

# Project Research It! (Poster or Model)

**Project Title:** \_\_\_\_\_

**Group Members' Names:**

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**Due Date:** \_\_\_\_\_

## Checklist

<input type="checkbox"/>	<b>Name of Structure</b>	<b>/1</b>	
<input type="checkbox"/>	<b>Materials</b>	<b>/4</b>	
<input type="checkbox"/>	<b>Design</b>	<b>/4</b>	
<input type="checkbox"/>	<b>Interesting Facts</b>	<b>/4</b>	
<input type="checkbox"/>	<b>Effect of Forces</b>	<b>/4</b>	
<input type="checkbox"/>	<b>Importance of Structure</b>	<b>/4</b>	
<input type="checkbox"/>	<b>Positives and Negatives of Structure</b>	<b>/4X2</b>	<b>/8</b>
<input type="checkbox"/>	<b>Creativity and Neatness</b>	<b>/4X2</b>	<b>/8</b>
	<b>Total:</b>		<b>/37</b>

## **Project Research It! (Poster or Model)**

You are a world renowned scientist who has been asked to prepare a poster presentation on one of the World's most famous/important structures. The following information must be found in your poster:

**1. Name of the structure**

/1

**2. Materials the structure is made of - In this section of your poster you must explain, in detail, the materials that your structure is made of. You must also use your knowledge from this unit to explain why you believe the architect and builder would choose to use those specific materials. Labelled diagrams may help you to explain this section.**

<p><b>4 – Materials are listed and excellent detail is given explaining why those materials have been used. Diagrams with labels have been added to help explain.</b></p>	<p><b>3 – Materials are listed and details are given explaining why those materials have been used.</b></p>	<p><b>2 – Materials are listed, with minimal details about why those materials have been used.</b></p>	<p><b>1 – Minimal materials are listed, but no supporting information about why those materials have been used is included.</b></p>
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**3. Information on the design of the structure – In this section of your poster you must explain the design of your chosen structure. Please use language that you have learned in this unit, when explaining how parts are put together (eg: fixed and mobile joints, truss, etc.) Labelled diagrams may help you to explain this section.**

<p><b>4 – Design of the structure has been well explained using language learned in this unit. Diagrams with labels have been added to help explain.</b></p>	<p><b>3 – Design of the structure has been well explained using language learned in this unit.</b></p>	<p><b>2 – Design of the structure is fairly explained, but no language learned in this unit is included.</b></p>	<p><b>1 – Minimal explanation of design is given, but important elements are missing.</b></p>
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**4. Interesting Facts – In this section you must include some interesting facts about your structure. You may choose to show these facts in a creative way (eg: pictures, quotes, imaginary interview with a tourist, etc.)**

<p><b>4 – Poster includes more than 5 interesting facts about the structure. Facts are shown in a creative manner, including diagrams, etc.</b></p>	<p><b>3 – Poster includes more than 5 interesting facts about the structure.</b></p>	<p><b>2 – Between 3 and 5 interesting facts about the structure are included.</b></p>	<p><b>1 – Less than 3 interesting facts about the structure are included.</b></p>
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**5. Effect of different forces on the structure – In this section you will need to use your knowledge to explain what forces (eg: tension, compression, shear, gravity, etc.) will act on your structure and how they will effect it (eg: causing structural stress, fatigue, failure, deformation, etc.).**

<p><b>4 – Inferences have been made about the types of forces that would act on the structure. Information is given to show that these inferences are backed up by scientific knowledge from this unit.</b></p>	<p><b>3 – Inferences have been made about the types of forces that would act on the structure. These inferences are logical based on scientific knowledge from this unit, but no explanation is given.</b></p>	<p><b>2 – Inferences have been made about the types of forces that would act on the structure, some inferences are logical.</b></p>	<p><b>1 – Minimal inferences have been made about the types of forces that would act on the structure.</b></p>
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**6. Why this structure is important – In this section you must give information that shows your reader why this structure has been or is important. This importance could be to tourism, to help the environment, to make life easier, etc.**

<p><b>4 – Information that is given is well explained and convinces the reader of the importance of your structure.</b></p>	<p><b>3 – Information that is given is well explained.</b></p>	<p><b>2 – Some information is given, but the reader is still left wondering about why the structure is important.</b></p>	<p><b>1 – Minimal information has been given to explain the importance of the structure.</b></p>
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**7. Evaluation of the structure – In this section you need to evaluate your structure based on the following categories: function, reliability, safety, efficiency, use of materials, impact on the environment. Feel free to include other positive and/or negative aspects of this structure.**

<p><b>4 – Evaluation has been made according to the given categories. Information is given to show that this evaluation is backed up by scientific knowledge from this unit. (eg topics: cost, aesthetics, material fatigue, etc.)</b></p>	<p><b>3 – Evaluation has been made according to most of the given categories. These inferences are logical based on scientific knowledge from this unit, but no explanation is given.</b></p>	<p><b>2 – Evaluation has been made according to most of the given categories. Some inferences are backed up by scientific knowledge.</b></p>	<p><b>1 – Minimal evaluation of the structure has been made.</b></p>
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**8. Creativity and Neatness - Please make sure that your information is neat, with as few errors as possible. You will also be given marks for creativity.**

<b>4 – Professional looking, with very few errors in grammar and spelling, complete with visual aspects (titles, pictures, etc.)</b>	<b>3 – Few errors in grammar and spelling. Neatly organized but missing creativity in pictures, etc.</b>	<b>2 – Many errors in grammar and spelling. Organization needs some work. Little creativity.</b>	<b>1 – Many errors in grammar and spelling. Poster lacks organization and creativity.</b>
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