



Motto  
"Not for self but for others"

Aspley State High School  
AIMS

**Subject:** Year 8 SCIENCE-AIMS  
**Identification:** Extended Response Task  
**Unit:** My Country, My Home.  
**Topic:** Making Gems!

**Date Issued:** Week: 5  
**Date Due:** Week: 7  
**Time:** 2 weeks

**Name:** \_\_\_\_\_

**Class:** \_\_\_\_\_ **Teacher:** \_\_\_\_\_

My Country, My Home: Australia has some of the most amazing geological features: such as the Great Dividing Range, Glass House Mountains and Mt. Kosciusko. But how did they get there? Did you know that the Glass House Mountains are known as volcanic plugs and it was due to folding and faulting of the earth that the Great Diving Range exist today, and Australia's tallest mountain was formed by 2 plates pushing together in the ground!

1. Your task is to start your background research by reading Science World 2 page 146-148. Make notes in your science book about folding and faulting and how oil is formed. Show this work to your teacher. And your teacher will sign to say it has been done.

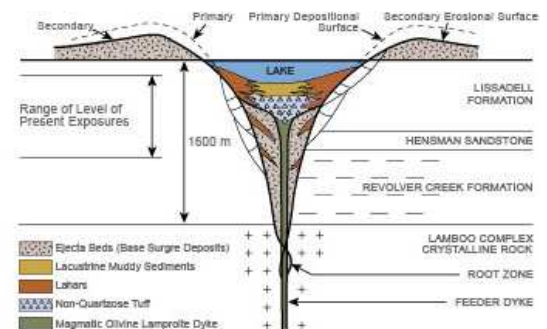
\_\_\_\_\_ Teacher Signature

2. You will be allowed 3 lessons in the ISC to produce a power point presentation. This presentation must contain between 10-12 slides.

3. **POWER POINT PRESENTATION**

1. **Power Point Presentation:** in this power point presentation you are to choose a famous Australian geological landmark from the list below, if you would like to choose another topic, you must discuss this with your teacher first.

- The Three Sisters.
- Uluru
- Great Australian Bite.
- Olgas.
- Mt. Warning.
- Great Dividing Range.
- Glass House Mountains.
- Mt Kosciusko.



Once you have chosen a topic, you are to prepare a power point presentation that will cover the following subheadings: (the following is a guide for you)

**Slide 1:** Your name, class details, teacher name and the geological landmark that you have chose,

**Slide 2-3: Introduction:**

- Location of the geological feature-includes a map.
- Photograph.
- Brief description of the type of structure: eg volcanic plug.

**Slide 4-8:Body Geological Structure**

- How it was formed/supporting diagrams e.g Folding or Faulting, tectonic plate movement?
- You must go into detail, and explain how the earth has changed to form this geological landmark.
- Perhaps you could find an animation that shows changes in the earth structure to form the geological landmark.
- Types of rocks that can be found in that area.
- How long ago did it form?
- How is it changing today? Is it changing today?

**Slide 9-11 Conclusions:**

- How has human impact changed this geological landmark?
- If human impact has an affect on this landmark, predict what will happen to this land mark in 50 years time.
- How can we preserve this geological landmark?

Your teacher to sign when these tasks have been completed.

TASK No	Task	Due Date	Signature
Task One	Choose the Australian Geological Feature.	Week 5	
Task Two	Internet research	Week 5 & 6	
Task Three	Power Point –Draft Checked by teacher.	End of week 6	
Task Four	Due Date for Power point Presentation, and Scientific Journal	Week 7	

**Student Ownership Statement.**

**Topic: My Country, My Home.**

**I declare that:**

This assignment is my own work and I have not copied other student's work or directly from textbooks or other sources. I have not gained unfair assistance from other students, parents or guardians.

STUDENT SIGNATURE \_\_\_\_\_ DATE SUBMITTED: \_\_\_\_\_

Carefully cut along the dotted line when you are ready to hand in your assignment.

***Assignment Receipt***

**Year 8**

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Received: \_\_\_\_\_

**Year 8 SCIENCE AIMS: Term 3**

**My Country, My Home**

<b>Assessable Elements</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>Knowledge &amp; Understanding</b>  <i>Introduction/Body</i>	<b>Comprehensive</b> knowledge & scientific understanding of the Geological structure, changes of the earth to form the geological structure and types of rocks found. 10-12 slides were included. A detailed map and photograph was included.	<b>Thorough</b> knowledge & scientific understanding of the Geological structure, changes of the earth to form the geological structure and types of rocks found. 10-12 slides were included. A map and photograph was included.	<b>Satisfactory</b> knowledge & scientific understanding of the Geological structure, changes of the earth to form the geological structure and types of rocks found. 8-10 slides were included. A map and photograph was included.	<b>Variable</b> knowledge & scientific understanding of the Geological structure, changes of the earth to form the geological structure and types of rocks found. 8-10 slides were included.	<b>Rudimentary knowledge &amp;</b> scientific understanding of the Geological structure, changes of the earth to form the geological structure and types of rocks found. 8-10 slides were included.
<b>Investigating</b>  <i>Conclusion</i>	<b>Insightful</b> application of science procedures to plan and conduct research into the chosen Geological Structure. <b>Discerning analysis</b> and evaluation of how human impact has affected the chosen geological landmark and make justified predictions about the consequences in 50 years time. Has drawn well reasoned conclusions.	<b>Effective</b> application of science procedures to plan and conduct research into the chosen Geological Structure. Is able to <b>logically</b> analyse and evaluate how human impact has affected the chosen geological landmark and make justified predictions about the consequences in 50 years time. Has drawn well reasoned conclusions.	<b>Competent</b> application of science procedures to plan and conduct research into the chosen Geological Structure. <b>Relevant</b> analysis and evaluation of how human impact has affected the chosen geological landmark and make justified predictions about the consequences in 50 year time. Has drawn credible conclusions.	<b>Variable</b> application of science procedures to plan and conduct research into the chosen Geological Structure. <b>Narrow</b> analysis and evaluation of how human impact has affected the chosen geological landmark and make justified predictions about the consequences in 50 years time. Has a proposed obvious conclusion.	<b>Minimal</b> application of science procedures to plan and conduct research into the chosen Geological Structure. <b>Cursory</b> analysis and evaluation of how human impact has affected the chosen geological landmark and make justified predictions about the consequences in 50 years time. Proposed conclusions.
<b>Communicating</b>	<b>Clear and accurate</b> communication using appropriate illustrations, representations and terminology to present the chosen geological structure in a power point format.	<b>Coherent and accurate</b> communication using appropriate illustrations, representations and terminology to present the chosen geological structure in a power point format.	<b>Sound</b> communication using illustrations, representations and terminology to present the chosen geological structure in a power point format.	<b>Disjointed</b> communication using some illustrations, representations and terminology to present the chosen geological structure in a power point format.	<b>Unclear</b> communication using some illustrations, representations and terminology to present the chosen geological structure in a power point format.
<b>Reflecting</b>  <i>Conclusion</i>	<b>Perceptive</b> reflection has been clearly demonstrated to explain how this landmark can be preserved.	<b>Informed</b> reflection has been clearly demonstrated to explain how this landmark can be preserved.	<b>Relative</b> reflection has been demonstrated to explain how this landmark can be preserved.	<b>Superficial</b> reflection has been demonstrated to explain how this landmark can be preserved.	<b>Cursory</b> reflection has been demonstrated to explain how this landmark can be preserved.