

Geology

Post-Activity – Research Poster Project

Grade	Four	Subject	Science	Time Estimated	120 minutes
Objectives	Students will conduct individual research on a particular example of a natural phenomenon that physically altered the Earth's landscape.				
Outcomes	<ul style="list-style-type: none"> • Demonstrate respect for the local environment (108-3). • Demonstrate and record a variety of methods of weathering and erosion, including human impact on the landscape (301-6, 108-6). • Describe natural phenomena that cause rapid and significant changes to the landscape (301-7). 				
Materials	<ul style="list-style-type: none"> • Bristol board • Research project outline • Paper • Pencils • Colored utensils • Scissors • Glue sticks • Library access • Computer access 				
Introduction	<p>The teacher will inform students that they will each be conducting a research project about a particular natural phenomenon that physically altered the Earth's landscape. Students may choose from a list of events that the teacher provides or select their own topic with the teacher's permission. This activity would be a good complement to the 'Exploring Changing Landscapes' post-activity, which will give students a pool of past and recent natural events to select from and give them more choices for their poster. Students may work individually, in pairs, or in groups at the teacher's discretion. *When dealing with natural disaster phenomenon it is likely that the facilitator will have to deal with students mentioning the loss of human life. When dealing with such a sensitive topic, it may be advisable to set the tone about such conversations before discussion/research begins.</p>				
Procedure	Students will be given a rubric outlining a list of criteria that they must follow in order to complete their projects. After students have completed the research component of their project, they will then put all of the information onto their poster as the final step.				
Conclusion	Students will present their research poster projects to the class or in small groups. Each student will have a question and answer period from their classmates following their presentation.				

Research Poster Project Outline

Prepare a poster about a past or recent natural event that caused changes to the surrounding landscape. Do your best to make your poster colourful and neat, with lots of interesting facts about how the landscape was changed. You can choose from one of the natural events below, or talk to your teacher about learning more about another event that interests you!

Possible topics to choose from:

- North American Ice Storm (1998)
- Nyiragongo Democratic Republic of Congo Volcano (2002)
- Hurricane Juan (2003)
- South Asian Tsunami (2004)
- Hurricane Katrina (2005)
- Kashmir Earthquake (2005)
- Sichuan Earthquake (2008)
- Chaiten Volcano (2008 - 2009)
- Haiti Earthquake (2010)
- Hurricane Earl (2010)
- Japanese Earthquake/Tsunami (2011)
- Eastern Australian Flooding (2012)
- North American Wildfire Season (2012)
- Guatemala Volcano (2012)
- Alberta Flooding (2013)
- Australian Wildfires (2013)
- Typhoon Haiyan (2013)
- Typhoon Usagi (2013)
- Drought in California (2013-2014)
- Super Typhoon Rammasun (2014)

Use the provided rubric to make sure you have included all the information needed to finish your poster.

Natural Events & Changing Landscapes Poster Project Rubric

	1	2	3	4
Natural Event Details	<p>Includes none or only one of the following:</p> <ul style="list-style-type: none"> a) Name of natural event (e.g. Hurricane Katrina) b) Type of natural event (e.g. volcano, tsunami, etc.) c) Date and location of event. d) Three interesting facts about the event 	<p>Includes two of the following:</p> <ul style="list-style-type: none"> a) Name of natural event (e.g. Hurricane Katrina) b) Type of natural event (e.g. volcano, tsunami, etc.) c) Date and location of event. d) Three interesting facts about the event 	<p>Includes three of the following:</p> <ul style="list-style-type: none"> a) Name of natural event (e.g. Hurricane Katrina) b) Type of natural event (e.g. volcano, tsunami, etc.) c) Date and location of event. d) Three interesting facts about the event 	<p>Includes each of the following:</p> <ul style="list-style-type: none"> a) Name of natural event (e.g. Hurricane Katrina) b) Type of natural event (e.g. volcano, tsunami, etc.) c) Date and location of event. d) Three interesting facts about the event
Changes to Landscape	<p>Includes info on only one way the landscape was changed</p>	<p>Includes info about the following:</p> <p>2-3 ways the landscape was changed</p>	<p>Includes info about one of the following:</p> <ul style="list-style-type: none"> a) How many people were affected by the event? b) Approximately how much land area was affected? <p style="text-align: center;">AND</p> <p>Three ways the landscape was changed</p>	<p>Includes info about each of the following:</p> <ul style="list-style-type: none"> a) How many people were affected by the event? b) Approximately how much land area was affected? <p style="text-align: center;">AND</p> <p>Three ways the landscape was changed.</p>
Poster Display	<p>Poster includes one of the following:</p> <ul style="list-style-type: none"> a) Picture or drawing of natural event b) Picture or drawing of one change to landscape c) Colourful d) Neat writing 	<p>Poster includes two of the following:</p> <ul style="list-style-type: none"> a) Picture or drawing of natural event b) Picture or drawing of one change to landscape c) Colourful d) Neat writing 	<p>Poster includes three of the following:</p> <ul style="list-style-type: none"> a) Picture or drawing of natural event b) Picture or drawing of one change to landscape c) Colourful d) Neat writing 	<p>Poster includes:</p> <ul style="list-style-type: none"> a) Picture or drawing of natural event b) Picture or drawing of one change to landscape c) Colourful d) Neat writing

