EARTH SCIENCE
Alternative Assessment to Final Exam
Mr. Mumpower
June 2012

Purpose: To display your mastery of objectives within Earth Science, as well as how it can be applied to current issues.

Task: 1. Create a 4-part poster along with a paper reflection.
2. Each quadrant (see below) will focus on each of the following:
   Astronomy, Meteorology, Geology, and Energy Resources
3. Then students will choose a sub-topic within each of these major areas to discuss.
   Select a topic that interests you or one that you learned in class.
4. Once a topic within a major Earth Science area is selected, include a picture that illustrates the topics significance.
5. Students must also include current information or data that pertains to the topic.
   This will show how a student applies his/her knowledge to a meaningful issue within the topic area.
6. Pictures, data, research, must include a brief citation next to the graphic.
7. Students will write a 2 page reflection paper (half page for each quadrant) that is attached to the back of the poster.
8. The paper needs to be written in paragraph form, double spaced with one inch or less margins, 12 point font size, and Arial or Times New Roman font type.
9. Students will make a short 5 minute presentation of their poster on exam day.
10. Any questions or concerns about the project need to be directed to Mr. Mumpower.

Due: This project is completed outside of class and **due on the day of your final exam.**
This is not a group project, **students are expected to do their own work** and sign a honor code statement.

Disclaimer: A) If the project is not fully COMPLETED by the beginning of the exam period, then students must take the standard exam.

B) A student does not have the option of completing a poster AND taking the standard exam in order to see which results in the higher grade. You must commit to one.

Final Exam Schedule

June 5th – Tuesday – Exams 1 and 2
June 6th – Wednesday – Exams 5 and 6
June 7th – Thursday – Exams 3 and 4
June 8th – Friday – Exams 7 and 8
### ASTRONOMY
- Stars
- Planets
- Moons
- Galaxies
- Space program/travel
- Tides
- Eclipses
- Sun

### GEOLOGY
- Rocks, Minerals
- Maps
- Groundwater
- Weathering, Erosion, Deposition
- Geologic History
- Plate Tectonics
- Volcanoes
- Earthquakes

### METEOROLOGY
- Atmosphere
- Wind
- Precipitation
- Climate change
- Air masses, fronts
- Weather maps
- Storms
- Ocean currents

### ENERGY RESOURCES
- Fossil Fuels
- Nuclear Energy
- Renewable resources

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For example, a quadrant may look like this.

**ENERGY RESOURCES**

### Coal

**US Coal Production**

![](chart.png)

**Category and sub-topic**

- Graphic that shows something learned from class

**Source of information**

Earth Science Final Exam – Alternative Assignment

Earth Science Reflection poster, paper, and presentation

Scoring Rubric

<table>
<thead>
<tr>
<th>Criteria</th>
<th>✓ - (70%)</th>
<th>✓ (85%)</th>
<th>✓ + (100%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic/Graphic</td>
<td>The sub-topic fits the category but the graphic could be more descriptive or representative of the subject.</td>
<td>The sub-topic fits the category and an accurate, representative graphic is displayed.</td>
<td>The sub-topic fits the category and the graphic is particularly effective in representing the subject.</td>
</tr>
<tr>
<td>Application of current information, data</td>
<td>The data or information is unclear or not current or not cited.</td>
<td>The data or information is current, applicable, and cited.</td>
<td>The data or information is current, applicable, cited and uniquely interesting.</td>
</tr>
<tr>
<td>Paper reflection</td>
<td>The paper is either not ½ page or does not communicate your knowledge or ability to apply the current information to the topic.</td>
<td>The paper is at least 1/2 page long and somewhat communicates what you learned and how it is applied.</td>
<td>The paper is at least 1/2 page long and clearly communicates what you learned and how it is applied.</td>
</tr>
<tr>
<td>Appearance</td>
<td>The poster is not very attractive or tidy.</td>
<td>The poster is attractive and tidy.</td>
<td>The poster is particularly attractive and tidy.</td>
</tr>
</tbody>
</table>

Project Grade:

Teacher Comments: