

**Worksheet 5-5—  
Lesson Plan  
Format**

(adapted with permission)

Subject:Earth Science	Teacher: Cox, Perry & Glass
Lesson Name: PSA	Location: Meridian High School
Class: 9 <sup>th</sup> Grade	Unit Context: Nature of Science
Date: 3-10-09	

<p><b>Activities</b> You are to give a one minute PSA (public service announcement), on your choice of one of the four Big questions that we have been studying. You will also create at least one visual aid of your choice as a background for your PSA. This assignment will give you practice in persuasive speaking and will strengthen skills that you can use in political meetings, business encounters, social gatherings, debates and the process of researching an issue. You will write a manuscript for your PSA and then transfer keys words and phrases OUTLINED on index cards. Also, you are to have at least 3 sources for your speech</p>	<p><b>Big6™ Skills</b></p> <p>Task Definition</p> <p>Use of information</p> <p>Synthesis</p> <p>Evaluate the PSA</p>	<p><b>Idaho Science Standards</b></p> <p>Standard 1 9-10.B.1.6.7</p>
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**Learning Context:** Bringing together prior knowledge, skills and content to create the end product to the research question chosen by the student.

**Materials/Resources:**

VA materials, manuscript, access to computer lab or library

.Evaluation: Class generated rubric

**Notes:** This is the last lesson for this Unit.

**Worksheet 5-5—  
Lesson Plan  
Format**

(adapted with permission)

Subject: Earth Science	Teacher: Cox, Perry & Glass
Lesson Name: Research Questions	Location: Meridian High School
Class: 9 <sup>th</sup> Grade	Unit Context: Nature of Science
Date: 3-10-09	

<p>Activities</p> <ol style="list-style-type: none"> <li>1. Review plate tectonics notes from class lecture and activities.</li> <li>2. Choose two of the four BIG questions. Create a mind map for each, and then choose a topic based on prior knowledge and confidence level.</li> <li>3. Write four questions for further investigation that will guide you through your research.</li> </ol>	<p>Big6™ Skills</p> <p>Location and Access, Use of Information</p> <p>Synthesis, Evaluation</p> <p>Task Definition, Synthesis</p>	<p>Idaho Science Standards</p> <p>Standard 1 9-10.B.1.6.7</p>
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Learning Context: Using prior knowledge and prior skills to formulate questions to guide research.

Materials/Resources: Student notes, notebook paper, pen/pencil, textbook.

Evaluation: Task completion: students must craft four researchable questions by the end of the period.

Notes: Students may not submit questions that would elicit a “yes” or “no” answer.

**Worksheet 5-5—  
Lesson Plan  
Format**

(adapted with permission)

Subject: Earth Science	Teacher: Cox, Perry & Glass
Lesson Name: Library Research	Location: Meridian High School
Class: 9 <sup>th</sup> Grade	Unit Context: Nature of Science
Date: 3-10-09	

<p><b>Activities</b> Research background and validity of previously developed research question. Each student will be required to find 5 sources: 1 print, 2 databases and 2 personal choices. Students must identify relevant information via: note card, outline, highlighted copies etc. Students must produce a work cited page in MLA format</p>	<p><b>Big6™ Skills</b></p> <p>ISS L&amp;A UI</p>	<p><b>Idaho Science Standards</b></p> <p>Standard 1 9-10.B.1.6.7</p>
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Learning Context: Students will apply their previously developed research questions as guided in A)finding information B) evaluating the information relevance.

Materials/Resources:

Library time

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Evaluation:

Works cited with 5 entries

Student choice of displaying information within each source

Notes: 3 Block/unit of library time plus 2 days of research as homework

*The Definitive Big6™ Workshop Handbook, page 78*

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**Worksheet 5-5—  
Lesson Plan  
Format**

(adapted with permission)

Subject: Earth Science	Teacher: Cox, Perry & Glass
Lesson Name: M&M story	Location: Meridian High School
Class: 9 <sup>th</sup> Grade	Unit Context: Nature of Science
Date: 3-10-09	

<p><b>Activities</b> Students will interpret geological cores represented by M&amp;M patterns. They will use their notes and textbooks as reference materials. After interpreting the M&amp;M sample, in pairs the students will write a 1-2 paragraph fiction story that incorporates their interpretation of the sample</p>	<p><b>Big6™ Skills</b> L&amp;A-find information in notes, text and sample UI-compare notes to what they are seeing in the sample Synthesis-write fiction that incorporates findings</p>	<p><b>Idaho Science Standards</b>  Standard 1 9-10.B.1.6.7</p>
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Learning Context: Application of information gained from lecture and readings

Materials/Resources:

M&M  
Notes  
textbook

Evaluation: Each story must address each “layer” of the sample. Each story must address the cause of changes in and between layers

Notes: Gale Ebooks will be open as an added resource

Exline, Joseph, Jay M. Pasachoff, Barbara Brooks Simons, Carole Garbuny Vogel, and Thomas R. Wellnitz. Prentice Hall Earth Science. Upper Saddle River, NJ: Prentice Hall, 2002.

ELibrary Curriculum Edition. LILI. 10 Mar. 2009

<<http://elibrary.bigchalk.com/libweb/curriculum/do/search>>.

Nagel, Rob. UXL Encyclopedia of Science. 2002. UXL. 10 Mar 2009

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