Section I

1. **Title of Lesson:** Compare and Contrast Metamorphic and Sedimentary Rocks

2. **Overview:** Students will be provided with an article that describes both metamorphic and sedimentary rocks. The students will highlight the characteristics of the rocks within the article. They will then write a paragraph, which states three similarities and three differences of the different types of rocks.

3. **Learning Goals:**
   - Given an article, students will identify three similarities and three differences of metamorphic and sedimentary rocks.
   - Students will write a paragraph including three similarities and three differences of metamorphic and sedimentary rocks.

4. **Time Required/Duration of Activity:** This lesson could be completed in two class periods totaling a total of 60 minutes

5. **Recommended Grade(s):** This lesson could be done in a 3rd grade co-teaching classroom

6. **Subject:** Science/English Language Arts

7. **Credits:** Lauren Eisele/South Allegheny Elementary School

8. **LDC Teaching Task:** What are the similarities and differences between metamorphic and sedimentary rocks? After reading an information article, write a paragraph that compares and contrasts metamorphic and sedimentary rocks.
Final Project – Primary Source Learning Activity

Section II

9. **PA Common Core Standards:**

   **CC.1.2.3.I** Compare and contrast the most important points and key details presented in two texts on the same topic.

   **CC.1.4.3.F** Demonstrate a grade- appropriate command of the conventions of standard English grammar, usage, capitalization, punctuation, and spelling.

10. **Materials Used:**

    - Book, “Geology for Dummies”
    - Graphic organizer
    - Primary source analysis tool
    - Teacher on Your Shoulder activity
    - Photographs of Bell Rock Formation and Slot Canyons
    - Article, A Journey to the Birthplace of Earthquakes, Volcanoes, & Tsunamis

11. **Resources Used:**


Section III

12. **Instructional Procedures:**

    - Mini-Task Discussion
      - The book “Geology for Dummies” would be used at the beginning of the lesson. The class would then view the section of the book that explains the different types of rocks. They will
use this information to compare and contrast sedimentary and metamorphic rocks. I expect the students to be able to identify three similarities and three differences between sedimentary and metamorphic rock.

- **Mini-Task**
  - After reading about the different types of rock in “Geology for Dummies”, Use a graphic organizer to organize your thoughts. Include three similarities and three differences of sedimentary and metamorphic rocks.
  - After completing the graphic organizer, write a paragraph that explains the similarities and differences that you found.

- **Teacher on Your Shoulder graphic organizer**
  - The close reading analysis will be implemented immediately following the mini task. This will immediately follow the mini task because the students will essentially be learning the same material. Skills that will be developed would include comparing and contrasting, and analyzing the text.

### Section IV

**13. Assessment:** The skills I would be evaluating using this rubric would be if the student were able to identify 3 similarities and 3 differences between metamorphic and sedimentary rocks. The students will have to write a paragraph, which explains the similarities and differences using appropriate grammar and staying on topic.

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<tr>
<td><strong>Content:</strong></td>
<td>Student lists 3</td>
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<td>Student listed 3 similarities and 3</td>
<td>4 or more grammatical errors</td>
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<td>differences</td>
<td>differences</td>
<td>3 grammatical errors</td>
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<td>Focus:</td>
<td>Student is completely off topic</td>
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<td>Student addresses prompt appropriately but with weak focus</td>
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<td>Student addresses all aspects of the prompt</td>
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