

Name_____ Date_____ Section_____

Earth Science Unit 3 Minerals and Rocks

Title: Activity 10 The Rock Cycle and Three Classes of Rocks

Challenge Question: What is the rock cycle? How do rocks form?

Background: *How do rocks change over time? How can rocks form?*

Materials:

The Dynamic Earth book

Vocabulary: Define the following terms in your own words.

Term	Definition	Picture or Example
igneous rock		
sedimentary rock		
metamorphic rock		
rock cycle		
uplift		
subsidence		
rift zone		
rock		
composition		
texture		

Procedures:

1. Read pages 154 - 163 and pages 170 - 179 in the *Dynamic Earth* book.
2. Do Lesson Review on page 165, questions 1 - 12.
3. Do Lesson Review on page 181, questions 1 - 10.
4. Create definitions for the Vocabulary. Answer Analysis Questions.

Data/Results: *(Write your responses to the book questions on a separate sheet of paper.)*

Analysis Questions:

1. How were the rock formations in Valley of Fire State Park in Nevada formed?

2. What is the difference between the three types of rock? How are they similar?

3. Explain how intrusive igneous rock forms.

4. How does extrusive igneous rock form?

5. What role do streams play in the formation of sedimentary rock?

6. What do scientists base their classifications of rock on? What determines grain size in metamorphic rock?
