

Name_____ Date_____ Section_____

Earth Science Unit 3 Minerals and Rocks

Title: Activity 9 Minerals

Challenge Question: What are minerals, how do they form, and how can they be identified?

Background: *Define matter.*

Materials:

The Dynamic Earth book

Vocabulary: Define the following terms in your own words.

Term	Definition	Picture or Example
mineral		
element		
atom		
compound		
crystal		
streak		
luster		
cleavage		

Procedures:

1. Read pages 140 - 151 in the *Dynamic Earth* book.
2. Answer questions 1, 2, and 5 - 17 from the reading.
3. Do Lesson Review on page 153, questions 1 - 8.
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. What are some of the ways that minerals form? What is a solution?

2. How does defining and identifying physical properties of minerals help people use minerals?

3. How can minerals be identified?

4. What is a streak plate and how is it used?

5. What properties do all minerals have? What are some properties that are unique to some minerals?

6. Review the various uses of titanium on page 151 from the reading. Besides luster, what property of titanium might make it useful as an exterior cover for buildings?

7. Where would a mineral fall on the Mohs hardness scale if it can scratch apatite but cannot be scratched by feldspar?
