

Name _____ Partner name _____

Crystal Construction Lab

Please construct each crystal and sketch the model below, use colored pencils to show different types of element. Please label each type of element. Then go to the following links to answers relevant questions about each crystal.

1. Graphite Crystal

Graphite Link: <http://en.wikipedia.org/wiki/Graphite>

- a. What rock is graphite most closely related to? _____
- b. What is graphite used in? _____
- c. What is the crystal shape (system) of graphite? _____
- d. List one other interesting fact about graphite:

2. Diamond Crystal

Graphite Link: <http://en.wikipedia.org/wiki/Diamond>

- a. What can make a diamond yellow or blue in color? _____

b. How long does a diamond take to form in the Earth? _____

c. What is the crystal shape (system) of a diamond? _____

d. List one other interesting fact about diamonds:

3. NaCl (Halite) Crystal

Graphite Link: <http://en.wikipedia.org/wiki/Halite>

a. How is halite created? _____

b. How is halite used to make ice cream? _____

c. What is the crystal shape (system) of a halite? _____

d. List one other interesting fact about halite:

Conclusion Questions (page 166 of your textbook may be helpful)

Review Questions

1. Cleavage and crystal shape are both the result of what chemical property?

2. Why is color alone not a good physical property for classifying minerals?