



NAME: _____

DATE: _____

Performing Well Under Pressure
Diamonds and Crystalline Structure

Diamond Discussion Worksheet

After watching Clip 2, “Diamond Formation,” answer the following questions:

1. What conditions are essential to the formation of a diamond? _____

2. What common and plentiful element are diamonds made of? _____

After viewing the 3D graphite and diamond structures:

3. Describe the crystalline structure of graphite:

4. Describe the crystalline structure of diamonds:

5. Why is the diamond structure so strong?

After watching Clip 3, Diamond Formation:

6. Where are diamonds formed? Why is this special? _____

7. What kind of information can diamonds provide for geologists studying this location? _____



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After watching Clip 4, “Inclusion Conclusions,” answer the following questions:

8. How do geologists determine the age of a diamond? _____

9. How old are diamonds? _____

10. Beyond the diamonds themselves, what information can inclusions provide to geologists?

After exploring the “Diamonds: Historical Diamond Reference Section” and the “Diamonds at the Paris Natural History Museum” Web sites, answer the following question:

11. How have diamonds been represented in folk lore, superstitions, and art? Add any other points of interest you discover about these gems.
