



NAME: _____

DATE: _____

Performing Well Under Pressure Diamonds and Crystalline Structure

Tetrahedron Worksheet

Using the diagrams listed below:

- <http://comp.uark.edu/~sboss/study1b.jpg> Olivine
<http://comp.uark.edu/~sboss/study1c.jpg> Single Chain
<http://comp.uark.edu/~sboss/study1d.jpg> Double Chain.
<http://comp.uark.edu/~sboss/study1e.jpg> Sheets

Complete the following:

A. On your desk, build a 3 D model of the mineral Olivine using at least 10 tetrahedron models.

Sketch what you have drawn here:

Mineral name _____

Describe what you have drawn here: _____

Determine the physical properties of Olivine and record them below:

The luster of this mineral is: *Metallic* *Non Metallic* (circle one)

This mineral *Cleaves* *Fractures* (circle one)

The streak of this mineral is *Clear or White* *Colored* (circle one)

This mineral is *Harder* *Softer* than a copper penny (circle one)

B. On your desk, build a 3 D model of the mineral Augite using at least 10 tetrahedron models.

Sketch what you have drawn here:

Mineral name _____



NAME: _____

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Describe what you have drawn here: _____

Determine the physical properties of Augite and record them below:

The luster of this mineral is: *Metallic* *Non Metallic* (circle one)

This mineral *Cleaves* *Fractures* (circle one)

The streak of this mineral is *Clear or White* *Colored* (circle one)

This mineral is *Harder* *Softer* than a copper penny (circle one)

C. On your desk, build a 3 D model of the mineral Hornblende using at least 10 tetrahedron models.

Sketch what you have drawn here:

Mineral name _____

Describe what you have drawn here: _____

Determine the physical properties of Hornblende and record them below:

The luster of this mineral is: *Metallic* *Non Metallic* (circle one)

This mineral *Cleaves* *Fractures* (circle one)

The streak of this mineral is *Clear or White* *Colored* (circle one)

This mineral is *Harder* *Softer* than a copper penny (circle one)



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D. On your desk, build a 3 D model of the mineral Muscovite using at least 10 tetrahedron models.

Sketch what you have drawn here:

Mineral name _____

Describe what you have drawn here: _____

Determine the physical properties of Muscovite and record them below:

The luster of this mineral is: *Metallic* *Non Metallic* (circle one)

This mineral *Cleaves* *Fractures* (circle one)

The streak of this mineral is *Clear or White* *Colored* (circle one)

This mineral is *Harder* *Softer* than a copper penny (circle one)