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Performing Well Under Pressure

Diamonds and Crystalline Structure

Tetrahedron Worksheet *ANSWER KEY*

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 _____

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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)