1st Annual Muscatel Invitational Tournament

Rocks and Minerals Test

Station 1

A-G: Identify the specimensH: Give the chemical formula of specimen D.I: What are the two major forms of specimen F?J: Give an optical property of specimen A.

Station 2

A-G: Identify the specimensH: Which of the the specimens is considered to be high-grade coal?I: Specimen B is the *intrusive/extrusive* equivalent of which specimen?J: Which of the specimens displays twinning?

Station 3

A-I: Identify the specimensJ: Which specimen is highest on the Mohs Scale?K: What is another name for specimen C?L: What is specimen E composed of?

Station 4

A-G: Identify the specimens.H: Give the class of specimen B.I: Specimen G is an ore of what?J: What are the main minerals found in Specimen F?

Station 5

A-G: Identify the specimens.H: Give the nickname for specimen D.I: What causes the impurities in specimen E?J: The large crystals in specimen A are what?

Station 6

A-G: Identify the specimens.H: Which specimen is a hydrate?I: True or false: specimen C is the most common sedimentary rock in the world?J: Which specimen turns into malachite over time?

Station 7 A-G: Identify the specimens. H: Specimen G is a source of what controversial building material?

I: Will specimen D sink?

J: What is the french name for the structure structure in specimen E?

Station 8

A-G: Identify the specimens.H: What is the main metal found in specimen A?I: What is the chemical formula for specimen F.J: What is specimen C made up of?

Station 9

Match the following rocks	with their nickname/common name.
1Ulexite	A. Chessylite
2Sulfur	B. Television Stone
3Pyrite	C. Heavy Spar
4Azurite	D. Fool's Gold
5Barite	E. Heavy Spar

6Where is most of the world's Anthracite Coal mined?

7Explain birefringence (in less than 10 words).

8What is the most massive ore on this list? What is it an ore of?

9What is the best conductor on this list?

10What are the bonds that hold carbon molecules together to form graphite?

Station 10

Draw a picture of the Bowen's Reactions Series showing the direction of crystal cooling, and the minerals involved.