

Crystals Internet Quest

Name _____

Period _____ Date _____

Use the Internet Resources listed below or any you may find on your own (Be sure to document your sources) to complete the following quest.

Some possible websites to use:

<http://www.rockhounds.com/rockshop/xtal/part2.html> : this site shows many different crystal shapes and gives a great deal of information about each.

http://www.minsocam.org/MSA/K12/K_12.html : talks about minerals and crystals in general.

<http://mineral.galleries.com/scripts/search.exe>: type in your crystal group and it will give you what you are looking for as well as a description of other properties.

Go to <http://www.minerals.net/mineral/index.htm> and select sort by crystal group to obtain the information needed to complete the table shown below. Type in the name of the mineral in the blank box , then copy and paste a picture of the typical crystal shape for this mineral in the same space.

Table 1

Crystal Group	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Mineral 5	What do all 5 minerals have in common?
Isometric						
Tetragonal						
Orthorhombic						
Hexagonal						
Monoclinic						
Triclinic						

The flat sides of the crystals are called faces. The imaginary lines which would run from the center of one face to the center of the face on the opposite side of the crystal is called an axis. Use a pencil to draw in the axes (plural of axis) on the crystal pictures in the chart on the first page. Now use a ruler and your own ideas to complete the chart shown below.

Table 2
Crystal Shapes

Crystal Group	How many sides/faces are there to the crystal?	What is the basic shape of the sides?	How many of the sides are identical in size and shape?	How many axes does the crystal have	Describe the relative lengths of the axes.	About what angle do the axes make where they intersect each other? (Look at the corners /edges of the crystal)
Isometric						
Tetragonal						
Orthorhombic						
Hexagonal						
Monoclinic						
Triclinic						

Write a general description for each of the 6 crystal forms above based on the information shown in your tables.