Mineral Crystal Structure and Internet Investigation ES0506 Geology 1P and Earth Science (1 st Part Only) Mr. Traeger						
Name:		×.	iod:	Date:		
Purpose						
The purpose of this activity is to become familiar with the crystal structure and formation of minerals.						
Materials Computer with Internet Connection Pencil or pen						
 Traeger Internet Investigations page with links Procedure 						
 Go to Traeger						
2. Answer the Questions that follow.						
 Part 1: Internet Investigation ES0506: How Do Crystals Grow? Complete the questions on the back of this handout using the first link under Internet Investigations. 						
Part 2: Crystal Structures						
 Click on second link for the 7 Crystal Systems. Tell me what is different about each crystal system by using the animation. 						
 Using the animations and mineral sites (remaining links), find one mineral for each crystal structure. Describe what the mineral looks like on its atomic scale and on its actual scale. 						
Crystal Structure	Description of sides a,	Description		Name of any mineral that	Description or Drawing of	Description or Drawing of
Shucture	b, and c	α, β, and γ	Appearance of	has this	appearance of	actual
	(ex: a = b = c)	(ex: α = β = γ = 90°)	crystal system	crystal structure	atomic scale (element	appearance of mineral
					bonding) of mineral	
Cubic						
Tetragonal						
Orthorhombic						
Orthornolible						
Monoclinic						
Triclinic						
Hexagonal						
Пеладона						
Trigonal						

Conclusion: How do minerals form? What are the three ways in which mineral crystallization can occur? How does the crystallization of the mineral and chemical bonding affect the appearance of the mineral? Attach separate paper.