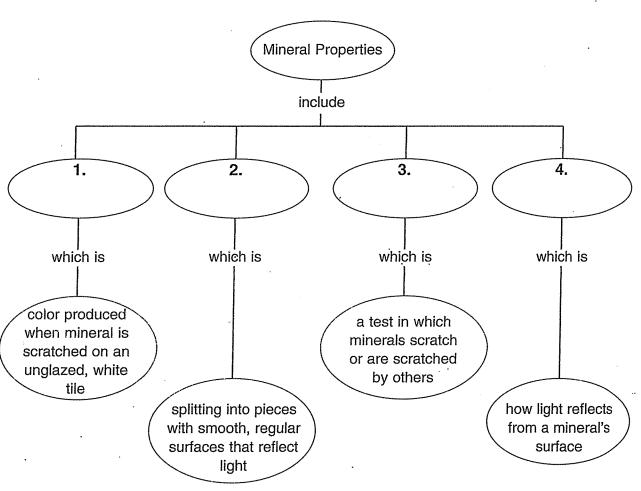
Directions: *Use the following terms to complete the concept map below.*

luster

streak

cleavage

hardness



Directions: *Insert the number of the word from the concept map that best matches each of the following sentences.*

5. Graphite shines like metal.

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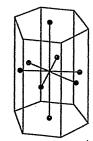
- _____ 6. Gold's is yellow, but pyrite's is greenish-black.
- _____ 7. A diamond is harder than quartz.
- **8.** Mica breaks along smooth, flat planes.

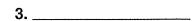
Maating Individual

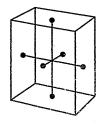
Directed Reading for Section 1 - Minerals

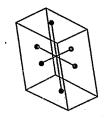
Directions: Label the crystal systems below as triclinic, cubic, tetragonal, hexagonal, orthorhombic, or monoclinic.

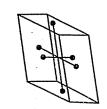












Directions: Circle the term in parentheses that correctly completes each sentence.

- 7. When magma cools slowly, the crystals formed are generally (large/small).
- 8. Crystals also form when minerals dissolve in a liquid that then (evaporates/melts).
- 9. Minerals that contain silicon, oxygen, and one or more elements are (silicates/halites).
- 10. Minerals are (organic/inorganic) crystalline solids.

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Diregies Reading for Section 2 - Mineral Identification

Uses of Minerals

Directions: *Use the chart to answer the questions below.*

Mohs Hardness Scale		Hardness of common objects	
	soft		
Talc	1		
Gypsum	2	fingernail (2.5)	
Calcite	3	piece of copper (2.5 to 3.0)	
Fluorite	> 4 : ,	iron nail (4.5)	
Apatite	5	glass (5.5)	
Feldspar	6	steel file (6.5)	
Quartz	7	streak plate (7.0)	
Topaz	S.		
Corundum	9		
Diamond	101		
S-200-200-200-200-200-200-200-200-200-20	hard		

- 1. Name one mineral that you can scratch with your fingernail.
- 2. Which mineral can scratch anything?
- 3. Which object can scratch feldspar but not quartz?
- 4. Which object can scratch apatite but not feldspar?

Directions: Write **T** for true or **F** for false before each statement below.

- 5. A gem is a highly prized mineral that is rare and beautiful.
- 6. An ore is a mineral or rock that contains a useful substance that can be mined at a profit.
- 7. Vein minerals are metal deposits that occur in the cracks of rocks.
- _____ 8. Ilmenite and rutile are iron ores.

Directed Reading for Content Mastery

Key Terms Minerals

Directions: *Use the following terms to complete the sentences below.*

	magma	crystal	cleavage	hardness			
	specific gravity	silicates	fracture	luster			
	streak	minerals	gem	ore			
1.	Halite, diamond, and gr	raphite are exar	nples of	•			
2.	A(n) is a solid in which the atoms are arranged in						
	repeating patterns.						
3.	Minerals that contain si	ilicon (Si) and	oxygen (O) are				
	called	•					
4.	One of the properties o	f minerals is _		, which measures			
	how easily a mineral car	n be scratched.					
5.	refers to the color left behind when a mineral is						
	rubbed across an unglazed porcelain plate.						
6.		_ describes ho	w light reflects from	a mineral's surface.			
7.	Amethyst is the		form of quartz.				
8.	Minerals that break along smooth, flat surfaces have						
9.	Some crystals are formed from hot melted rock called						
10.	Minerals that break with an uneven, rough, or jagged surface						
	have			•			
11.	Gold's	is 17,	meaning that it is 1	7 times heavier than			
	an equal volume of wat		- -				
12.	Iron is obtained from it	•	, hemati	ite.			