Mineral Review

ŗ	Use the	word box below to	fill in the blanks o	correctly. You will	NOT use all of the	se words!			
	Silicon	Fracture	Penny	Hardness	Silicates	Color			
	Luster	Nail	Minerals	Luster	Fingernail	Rocks			
	Crystal	Hardness	Metallic	Diamond	Streak	Mohs Scale			
	10	Non-Metallic	Cleavage	Oxygen	Cleavage	Streak			
1)	A is formed when the atoms of a material form an orderly, repeating pattern.								
2)	Crystals combine to make, which is a naturally-occurring, inorganic solid with a definite								
		chemical makeup.							
3)	The most common group of minerals are the, which have both the elements								
	(and one other mineral) in them.								
4) 5)	The way that a r	e identified through mineral reflects ligh <e called<br="" is="" it="" metal,=""></e>	t (or shines) is ca	lled		There are 2 types: if the s called			
6)	is how easily a mineral can be scratched. We measure it using								
	We assign it a number based on what scratches it: If a scratches it, it has a hardness of 2.								
	If a scratches it, it has a hardness of 3.								
	If a scratches it, it has a hardness of 4.								
		If a	scratches it, i	t has a hardness o	t 4.				
	The highest har	dness has a numbei	r of and	belongs to the mi	neral	·			
7)	is the color of the mineral in powdered form – check it by writing with the mineral.								
3)						If it breaks alo			
	rough, uneven l	ines, it has	•						

Mineral	Color	Luster	Streak	Hardness	Other Properties
calcite	colorless	glassy	colorless	3	Crystals often present Smooth surface Double image may appear when looked through May fizz with vinegar
feldspar	usually pink or white	pearly or white	colorless white	6	One side is smooth and glossy Translucent on edges Small lines on surface
galena	gray	metallic	silver-gray to black	2 -1/2	Breaks into cube-shaped pieces Heavy for its size
graphite	black	dull or metallic	black	1-2	Easily leaves a mark on paper Used inside pencils
hematite	red, brown or black	dull or metallic	light to dark red	5 - 6	Contains approximately 70% iron
magnetite	black	dull or metallic	black	6	Contains iron Attracted by a magnet
muscovite mica	pale to almost colorless	pearly or glassy	colorless	2-1/2 - 3	Splits easily into thin, flat sheets Has a smooth texture Translucent to opaque
pyrite	brassy yellow	metallic	greenish black	6 - 6-1/2	Usually forms cube-shaped crystals Brittle, popularly called "fools gold"
quartz	colorless	glassy	colorless	7	Transparent to translucent Often occurs as six-sided (hexagonal) crystals
talc	white	greasy to pearly	gray	1	Feels greasy Ground up to make baby powder

ID the mineral using the table above and your observations below.

- a) Your mineral is yellow, has a shiny, metallic luster and can be scratched by a steel file. It has fracture and a black streak.
- b) Your mineral is black, looks like a shiny piece of metal, is scratched by a steel file, and is attracted by a magnet.
- c) Your mineral is colorless, has a non-metallic luster, can be scratched by a penny, and reacts with acid during the acid test.
- d) Your mineral is white, leaves a gray mark when crushed into powder, can be scratched with your fingernail, and feels greasy.
- e) Your mineral cannot be scratched by a steel file, leaves no streak, and is colorless.