

Mineral Observation Chart

Name: _____

Record your observations about the minerals. Use your observations and the clue sheet to identify each mineral.

Mineral Sample Number	Metallic? Yes/No	Can your fingernail scratch it? Yes/No	Can the metal nail scratch it? Yes/No	Estimate Hardness (1-10) (1 is soft, 10 very hard) *	Color of mineral	Does it leave a streak on the tile? What color?	Smooth or rough/ uneven, or both? (cleavage)	Name the mineral!
1.	metallic	yes	yes	1-2	Dark grey to black	black	Rough, uneven cleavage	graphite
2.	metallic	No	Yes	2.5	Silver or grey	grey	smooth	galena
3.	Metallic	No	No	6-6.5	Brass-yellow	Brown or black	rough	pyrite
4.	Metallic dull	No	Yes	6	Black	Black	rough	magnetite
5.	Dull and opaque (metallic)	No	Yes	5.5-6	Red to black	Brick red	rough	Hematite
6.	Non metallic	No	Yes	2.5	Colorless to white to pale red	White	Smooth sides, cubic	halite
7.	Non metallic, dull	No	Yes	4	Colorless, with yellow, purple, or green	White	smooth	fluorite

* If it scratches with a fingernail, it is less than 2.5. If it scratches with a metal nail, it is less than 7.5. If it does not scratch with a nail, it is 7.5-10

Mineral Sample Number	Metallic? Yes/No	Can your fingernail scratch it? Yes/No	Can the metal nail scratch it? Yes/No	Estimate Hardness (1-10) (1 is soft, 10 very hard) *	Color of mineral	Does it leave a streak on the tile? What color?	Smooth or rough/uneven, or both? (cleavage)	Name the mineral!
8.	Non metallic, dull	No	Yes	3	Colorless, white, or pale	White	smooth	calcite
9.	Non metallic	no	yes	3.5-4	blue	blue	rough	azurite
10.	Non metallic, pearly	No	Yes	3	Colorless or various colors	white	rough	barite
11.	Non metallic, transparent	Yes	Yes	2	Colorless white	white	smooth	selenite
12.	Non metallic	No	No	7	Colorless to milky white	None/white	rough	quartz
13.	Non metallic	No	No	6-6.5	Colorless white or grey	None/white	Smooth on two sides	Potassium feldspar
14.	Non metallic, greasy	Yes	Yes	1	Green grey or white	white	rough	talc
15.	Non metallic, transparent	Yes	Yes	2.5-3	Grey to greenish, silvery	White	smooth	muscovite
16.	Non metallic	no	no	7-7.5	Various: red, brown, black, orange or greenish	None/white	rough	garnet

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