

Rockin' Detectives Post Activity- Identification Chart

Mineral	Hardness	Streak	Magnetic	Cleavage	Effervescent
Kaolinite (chalk, porcelain)	1.5-2	White	No	Perfect	no
Malachite (copper)	3.5-4	light green	no	Perfect	no
Feldspar (plagioclase)	6 - 6.5	White	No	Good in two directions	no
Pyrite	6.5	black	no	Perfect, cubic	no
Graphite	1 - 2	black	no	Perfect	no
Gypsum	2	white	no	Good in one direction only	No
Halite (Salt)	2 - 2.5	white	no	Perfect, cubic	no
Goethite (iron ore)	5 - 5.5	yellowish brown	Yes - weakly	Perfect	No
(Pentlandite) Nickel	4.5-5	black	no	Non-existent	No
Calcite (calcium carbonate)	3	white	no	Perfect	Yes
Quartz	7	white	no	Non-existent	No
Biotite (mica)	2.5 -3	grey	no	Perfect	No
Ilmenite (titanium ore)	5-6	Black to reddish brown	Weakly magnetic	Non-existent	no
Fluorite	4	White	no	Perfect	no