



## Be a Mineral Detective Known Mineral Properties

© 2009 Flinn Scientific, Inc. All Rig	Pyrite	Sulfur	Hematite	Halite	Mica (muscovite)	Calcite (Iceland spar)	Feldspar (Microcline)	Quartz (Rose)	Mineral Name
© 2009 Flinn Scientific, Inc. All Rights Reserved. Reproduction permission is granted only to science teachers who have purchased Be a Mineral Detective, Catalog No. AP\$949, from Flinn Scientific, Inc. No part of this material may be repro-	Brass yellow to metallic gold	Bright yellow; Dull, not shiny	Dark red-brown to silver; Dull, not shiny	Clear, colorless crystal; Shaped like a perfect box	Colorless to metallic brown; Thin and very flat; Layered	Clear, colorless crystal; Shaped like a squashed box	Pinkish white; Some very flat surfaces; Slightly shiny	Pinkish to colorless; Shiny; No flat surfaces	Observations
nted only to science teach	Opaque	Opaque	Opaque	Transparent to translucent	Transparent to translucent	Transparent; Double Refractive	Opaque	Opaque to translucent	Light Interaction
hers who have purchased	Green to black	White to yellow	Red to silver	Colorless to white	Colorless	Colorless to white	Colorless	Colorless	Streak
Be a Mineral Detective, (	6–6.5	1.5–2.5	3–6	2–2.5	2–2.5	ω	6	7	Hardness
Catalog No. AP5949, fron	None	None	None	Perfect	Perfect	Perfect	Good to perfect	None	Cleavage
n Flinn Scientific, Inc. No	None	Rotten eggs	None	None	None	None	None	None	Smell
o part of this material ma	Above average to fast	Average	Average	Very fast	Slowest of group	Average to fast	Slow to average	Average	lce
ıy be repro-	Insoluble in water and acid	Insoluble in water and acid	Insoluble in water and acid	Soluble in water and acid	Insoluble in water and acid	Insoluble in water; soluble in acid	Insoluble in water and acid	Insoluble in water and acid	Solubility
	Known as fool's gold	Used to make explosives, fertilizer and sulfuric acid	Can look earthy or metallic; Metallic version used in jewelry	Commonly known as salt; Perfect 90-degree cleavage	Thin, flat, sheet-like flexible pieces peel off easily	Perfect cleavage; Cleavage not at 90 degrees; Primary mineral in limestone	Major component is granite, which is used in building construction	Sand on most beaches is made of quartz; Variations are used in jewelry	Remarks

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