
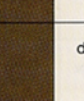
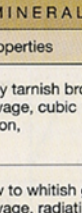

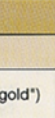


		METALLIC MINERALS			
		Hardness	Streak	Other Properties	Mineral
Not scratched by steel nail or knife		6.5-6	Dark gray	brass yellow, may tarnish brown; brittle, no cleavage, cubic crystals common, S.G. = 5.0.	PYRITE ("fool's gold") FeS ₂ iron sulfide
		6.5-6	Dark gray	pale brass yellow to whitish gold; brittle, no cleavage, radiating masses and "cockscombs," S.G. = 4.9.	MARCASITE FeS ₂ iron sulfide
		6	Dark gray	dark gray to black; magnetic, no obvious cleavage, S.G. = 5.2.	MAGNETITE Fe ₃ O ₄ iron oxide
		6.5-5	Red to red-brown	silver to gray, may be tiny glittery flakes, may tarnish red, S.G. = 4.9-5.3.	HEMATITE Fe ₂ O ₃ iron oxide
Scratched by steel nail or knife		5.5-5	Yellow-brown	dark brown to black, in radiating layers, S.G. = 4.3.	GOETHITE FeO(OH) hydrous iron oxide
		5.5-5	Yellow-brown	yellow-brown to dark brown; amorphous, but may be pseudomorphic after pyrite, S.G. = 4.1-4.3.	LIMONITE Fe ₂ O ₃ · nH ₂ O hydrous iron oxide
Scratched by wire nail		4-3.5	Dark gray	golden yellow, may tarnish purple; brittle, no cleavage, S.G. = 4.1-4.3.	CHALCOPYRITE CuFeS ₂ copper-iron sulfide
		4-3.5	White to yellow-brown	brown to yellow, or black; submetallic, dodecahedral cleavage, S.G. = 3.9-4.0.	SPHALERITE ZnS zinc oxide
Scratched by penny		3-2.5	Copper	copper to dark brown, may oxidize green; malleable, S.G. = 8.8-8.9.	NATIVE COPPER Cu copper
		2.5	Gray to dark gray	silvery gray, tarnishes dull gray; cubic cleavage, not scratched by fingernail, S.G. = 7.4-7.6.	GALENA PbS lead sulfide
Scratched by fingernail		1	Dark gray	gray to black, marks paper easily; greasy feel, S.G. = 2.1-2.3.	GRAPHITE C carbon