

Native Elements Class

With Exception of the free gases of the atmosphere only about 20 elements are found in native state, these elements are found as minerals in the solid part of the earth's crust.

Native Elements Class	
Name	Chemical Composition
Gold	Au
Silver	Ag
Copper	Cu
Arsenic	As
Antimony	Sb
Bismuth	Bi
Sulphur	S
Diamond	C
Graphite	C

Sulphides Class

The Sulphides form an important class of minerals including the majority of the ore minerals.

Most of the sulphide minerals are opaque with distinctive color and characteristically colored streaks. Those that are nonopaque, such as Cinnabar, transmit light only on thin edges.

The general formula for sulphides is given as A_mX_n in which A represents the metallic elements and X the non-metallic elements.

Sulphides Class	
Name	Chemical Composition
Argentite	Ag_2S
Chalcocite	Cu_2S
Bornite	Cu_5FeS_2
Galena	PbS
Sphalerite	ZnS
Chalcopyrite	$CuFeS_2$
Nickelite	$NiAs$
Covellite	CuS
Cinnabar	HgS
Orpiment	As_2S_3
Pyrite	FeS_2
Molybdenite	MoS_2