

MINERALS TO KNOW

There are over 7000 minerals but you need to recognise only those in these lists. Try to learn to recognise those 44 in List 1 first, then those 29 in List 2. It will be helpful know the simple compositions as well.

LIST 1

anatase	TiO ₂
anglesite	PbSO ₄
aragonite	CaCO ₃
arsenopyrite	FeAsS
azurite	Cu carbonate
baryte	BaSO ₄
bornite	Cu ₅ FeS ₄
calcite	CaCO ₃
cassiterite	SnO ₂
cerussite	PbCO ₃
chalcantite	Cu sulphate
chalcopyrite	CuFeS ₂
corundum	Al ₂ O ₃
crocoite	PbCrO ₄
cuprite	Cu ₂ O
diamond	C
ferberite	FeWO ₄
fluorite	CaF ₂
galena	PbS
goethite	FeO(OH)
graphite	C
gypsum	CaSO ₄ .2H ₂ O
halite	NaCl
hematite	Fe ₂ O ₃
ice	H ₂ O
magnesite	MgCO ₃
magnetite	Fe ₃ O ₄
malachite	Cu carbonate
marcasite	FeS ₂
molybdenite	MoS ₂
natrolite	complex silicate
opal	SiO ₂ .nH ₂ O
prehnite	complex silicate
pyrite	FeS ₂
quartz	SiO ₂
rhodochrosite	MnCO ₃
rhodonite	MnSiO ₃
rutile	TiO ₂
smithsonite	ZnCO ₃
sphalerite	ZnS

stibnite	Sb ₂ S ₃
sulphur	S
wolframite	(Fe,Mn)WO ₄
wustite	FeO
zircon	ZrSiO ₄

LIST 2

atacamite	Cu ₂ Cl(OH) ₃
beryl	Be ₃ Al ₂ Si ₆ O ₁₈
biotite	complex silicate
brookite	TiO ₂
celestine	SrSO ₄
chrysocolla	complex silicate
diopside	Cu silicate
dolomite	CaMg(CO ₃) ₂
dravite	complex silicate
elbaite	complex silicate
epidote	complex silicate
fluorapatite	Ca ₅ (PO ₄) ₃ F
ilmenite	FeTiO ₃
jadeite	complex silicate
moissanite	SiC
monazite	RE phosphate
muscovite	complex silicate
orthoclase	KAlSi ₃ O ₈
pentlandite	(Fe,Ni) ₉ S ₈
periclase	MgO
pyromorphite	Pb ₅ (PO ₄) ₃ Cl
pyrrhotite	FeS
scheelite	CaWO ₄
schorl	complex silicate
siderite	FeCO ₃
spinel	MgAl ₂ O ₄
stichtite	complex carbonate
talc	complex silicate
turquoise	complex silicate
vanadinite	Pb ₅ (VO) ₄