

Luster
how the mineral
reflects light

Fluorescence
and double image
are other properties

Minerals are
extremely important

Metals and glass
refined from ores

Ores are
any mineral
extracted at
a profit

Ores result
from a concentration
of specific elements
or minerals

Many from magmas
specific heats
and pressures
correspond to
specific minerals

Hot water carries
dissolved minerals
or elements
drop out
when water cools
Evaporation
leaves behind
dissolved minerals

Heavy minerals
concentrate
in low spots

Rainwater dissolves
some minerals

Leaves others
behind

Mining used
to collect ores
separate ores
from surrounding rock

close to surface
open pits used
narrow or deep
shafts and tunnels
are dug

Salts can be
dissolved
and pumped out

Ore mined
needs processing

extract metals

precious gems

Cost of mining
and processing