

**Quartz has
many uses
melted for glass
used in watches
sometimes gems**

**Other mineral groups
based on consistent
elemental components**

**Oxides
elements combined
with oxygen
Magnetite**

**Sulfides
elements with sulfur
Pyrite**

**Halides
elements with Halogens
Fluorite**

**Carbonates
included
Carbon and
three Oxygens
Calcite**

**Sulfates
Sulfur with
Four Oxygens
Barite**

**Basic tests
identify minerals
Crystal shape
is characteristic
can't always see**

**Hardness
measured with
Mohs scale**

**Diamond hardest
Talc softest**

**Color
only works with some**

**Streak
rub mineral
on piece of
rough porcelain**

**Cleavage
and Fracture
Cleavage gives
regular faces
when mineral broken**

**Mica gives
flat sheets**

**Fracture leaves
rough surface**

**Magnetism
only applies to
a few**

**Density
and Specific Gravity
weigh specimen
in water
to be accurate
Acids react
with some minerals
like Calcite
or marble**