



MINERALS

Borate Family

Ulexite

Carbonate Family

Aragonite
Azurite
Calcite
Dolomite
Malachite
Rhodochrosite*

Native Element Family

Copper
Diamond
Gold
Graphite
Silver
Sulfur

Halide Family

Fluorite
Halite⁴

Oxide/Hydroxide Families

Corundum
Goethite/Limonite
Hematite
Magnetite
Pyrolusite*
Rutile*
Zincite*

Phosphate Family

Apatite
Pyromorphite*
Turquoise*
Vanadinite*

Sulfate Family

Barite
Celestite*
*Gypsum*⁴ varieties:
Alabaster (massive)
Satin Spar (fibrous)
Selenite (crystalline)

Sulfide Family

Bornite*
Chalcopyrite
Galena
Pyrite
Sphalerite
Stibnite*

Silicate Family

Apophyllite*
Beryl
Epidote
Kaolinite
Kyanite
Olivine
Quartz varieties:
Aventurine
Agate
Amethyst
Chalcedony
Citrine*
Jasper*
Milky Quartz
Opal
Rock Crystal
Rose Quartz
Smoky Quartz*
Sodalite
Staurolite
Stilbite*
Talc
Topaz
*Tourmaline Group*¹
Willemite*
Zircon*
Amphibole Group
Actinolite*
Hornblende
Tremolite*
Feldspar Group
Plagioclase feldspars
Albite
Labradorite
Potassium feldspars
Amazonite
Orthoclase/Microcline
(pink)²
*Garnet Group*¹
Almandine
Mica Group
Biotite
Lepidolite*
Muscovite
Pyroxene Group
Augite
Rhodonite*
Spodumene*

ROCKS

IGNEOUS ROCKS

Andesite
Basalt
Diorite
Gabbro
Granite
Obsidian
Pegmatite
Peridotite
Pumice
Rhyolite
Scoria
Syenite
Tuff

SEDIMENTARY ROCKS

Banded Iron Formation
Bauxite³
Breccia
Chert/Flint
Conglomerate
Diatomite
Dolostone
Rock Salt (Halite)⁴
Rock Gypsum⁴
Shale

Coal varieties:

Anthracite
Bituminous
Lignite

Limestone varieties:

Chalk
Coquina
Fossil Limestone
Oolitic Limestone
Travertine

Sandstone varieties:

Arkose
Greywacke
Quartz Sandstone

METAMORPHIC ROCKS

Amphibolite
Gneiss
Marble
Phyllite
Quartzite
Schist Varieties:
Garnet Schist
Mica Schist
Talc Schist (Soapstone)
Serpentinite
Slate

Specimens marked with an asterisk () are for State and National Tournaments

1 - Garnet and Tourmaline varieties should be identified at the group level, except for Almandine.

2 - This pink variety of feldspar should be identified as Potassium feldspar and not specifically as Orthoclase or Microcline.

3 - Bauxite has been reclassified as a sedimentary rock.

4 - Rock Salt and Rock Gypsum for identification purposes are considered the same, respectively, as the minerals Halite and Gypsum and do not need to be distinguished.