

Minerals you should be able to identify

| Group | Mineral | Collection notes |
|-----------------|---------------|------------------------------------|
| Native Elements | Graphite | |
| Native Elements | Sulfur | |
| Sulfides | Chalcocite | |
| Sulfides | Bornite | |
| Sulfides | Galena | |
| Sulfides | Sphalerite | |
| Sulfides | Chalcopyrite | |
| Sulfides | Stibnite | |
| Sulfides | Pyrite | Limonite after pyrite pseudomorphs |
| Sulfides | Marcasite | |
| Sulfides | Molybdenite | |
| Oxides | Corundum | |
| Oxides | Hematite | |
| Oxides | Magnetite | |
| Oxides | Rutile | |
| Oxides | Uraninite | (Name says "Uranite") |
| Oxides | Chromite | In unmarked tray |
| Hydroxides | Goethite | |
| Halides | Halite | |
| Halides | Fluorite | |
| Carbonates | Calcite | |
| Carbonates | Siderite | |
| Carbonates | Rhodochrosite | |
| Carbonates | Aragonite | |
| Carbonates | Dolomite | |
| Carbonates | Malachite | |
| Carbonates | Azurite | |
| Borates | Ulexite | |
| Sulfates | Barite | |
| Sulfates | Gypsum | |
| Nesosilicates | Forsterite | |
| Nesosilicates | Almandine | |
| Nesosilicates | Andradite | |
| Nesosilicates | Grossular | |
| Nesosilicates | Zircon | |
| Nesosilicates | Andalusite | |
| Nesosilicates | Kyanite | |
| Nesosilicates | Topaz | |
| Nesosilicates | Staurolite | twins |
| Nesosilicates | Titanite | |
| Sorosilicates | Epidote | |
| Sorosilicates | Allanite | |
| Sorosilicates | Vesuvianite | |
| Cyclosilicates | Beryl | |

| | | |
|-----------------|--------------|------------------------|
| Cyclosilicates | Tourmaline | |
| Inosilicates-P | Enstatite | |
| Inosilicates-P | Diopside | |
| Inosilicates-P | Augite | |
| Inosilicates-P | Jadeite | |
| Inosilicates-P | Spodumene | |
| Inosilicates-P | Wollastonite | |
| Inosilicates-A | Tremolite | |
| Inosilicates-A | Actinolite | |
| Inosilicates-A | Hornblende | |
| Inosilicates-A | Glaucophane | |
| Phyllosilicates | Serpentine | |
| Phyllosilicates | Kaolinite | |
| Phyllosilicates | Talc | |
| Phyllosilicates | Pyrophyllite | |
| Phyllosilicates | Muscovite | |
| Phyllosilicates | Lepidolite | |
| Phyllosilicates | Biotite | |
| Phyllosilicates | Chlorite | |
| Phyllosilicates | Chrysocolla | |
| Tectosilicates | Quartz | |
| Tectosilicates | Cristobalite | |
| Tectosilicates | Opal | |
| Tectosilicates | Microcline | |
| Tectosilicates | Orthoclase | |
| Tectosilicates | Sanidine | |
| Tectosilicates | Albite | |
| Tectosilicates | Anorthite | |
| Tectosilicates | Leucite | |
| Tectosilicates | Nepheline | |
| Tectosilicates | Sodalite | |
| Tectosilicates | Analcime | (Name says "analcite") |
| Tectosilicates | Heulandite | |
| Tectosilicates | Natrolite | |
| Tectosilicates | Stilbite | |
| Tectosilicates | Anorthoclase | |

Notes:

Nesosilicates = Isolated tetrahedra

Sorosilicates = "Bow-tie" paired tetrahedra

Cyclosilicates = Rings of tetrahedra

Inosilicates = Chains of tetrahedra (P=single chain, or pyroxene type; A = double-chain, or amphibole type)

Phyllosilicates = Minerals made out of greek pastry dough

Tectosilicates = Frameworks of tetrahedra