

- 1 OLIVINE
 - Green
- 2 PYROXINE
 - harder than glass
 - 2 cleavages
 - Black/Dark Green
 - White spots
- 3 HORNBLende
 - black
 - Some white spots
- 4 BIOTITE
 - black flakes
 - one cleavage
 - reacts with HCl
- 5 MUSCOVITE
 - white flakes
- 6 POTASSIUM FELDSPAR
 - pink 1 cleavage
 - reacts with HCl
- 7 PLAGIOCLASE FELDSPAR
 - hard - blacky
 - 2 cleavages
 - white
 - no reaction
- 8 PLAGIOCLASE
 - blue
- 9 QUARTZ
 - hard
 - clear
 - no reaction
 - more round
- 10 CALITE
 - reacts with HCl
 - also ^{clear} white
- 11 HALITE
 - clear
 - 3 cleavages
 - tastes salty
- 12 GYPsum
 - clear
 - can flake off (fingernail)
 - doesn't taste like salt
- 13 TALC
 - Feels soapy
 - very soft
- 14 GRAPHITE
 - makes ^{shiny} black mark
 - black - no reaction
- 15 GARNET
 - brownish black
 - hard
 - doesn't react
- 16 MAGNETITE
 - magnetic - Grey
 - no reaction
- 17 HEMATITE
 - ^{can} brittle
 - red brown colour
- 18 ~~reacts~~ GALENA
 - white spots
 - 3 cleavages
 - soft
 - leaves marks
 - reacts

19 PYRITE

- black & yellow
- no reaction

20 CHALCOPYRITE

- looks like olivine but is more yellow

IGNEOUS ROCKS

GABBRO

- Coarse grained
- ~~black~~ mainly black some white
- reacts with HCl

DIORITE

- Coarse grained "salt & pepper"
- ~~black & white~~ more white than black

GRANODIORITE

- heavy - coarse grained
- light colour

GRANITE

- hard to scratch
- looks like pink barbershop
- coarse grain
- chunky

BASALT

- fine grained
- grey-ish black
- no reaction

ANDESITE

- fine grained
- grey (white pieces inside)
- reacts

RHYOLITE

- fine grained
- greyish pink (clay)
- no reaction

VESICULAR BASALT

- lots of small holes
- blackish grey

ANDESITE PORPHYRY

- shiny black crystals
- ~~black~~ grey crystals

PORPHYRY GRANITE PEGMATITE

PORPHYRYTIC GRANITE

- big pink patch
- salt & pepper
- no reaction

BASALT PORPHYRY

- white minerals visible
- little bubbles
- has small bits of olivine

PEGMATITE (GRANITE)

- grey, black, ^{pink} yellow, white
- distinct crystals

OBSIDIAN

- black & shiny & glassy

PUMICE

- yellowish tan
- has small holes
- lightweight

LAPILLI TUFF

- long streaks & circles
- black, grey & ~~black~~

VOLCANIC BRECCIA

- lots of minerals put together
- react with HCl
- big minerals visible

SEDIMENTARY ROCKS

CONGLOMERATE

- reddish
- big ^{pebbles/} minerals holding together
- will react with HCl

ARKOSE

- greyish / reddish
- coarse
- well sorted
- reacts

LITHIC-ARENITE

- very small grain size
- straight bedding
- top & bottom smooth

QUARTZ-WACKE

- quartz
- contains lime mud

SILTSTONE

- lightweight
- fine grain
- bedding
- scrape with nail, if grain comes off.
- reacts - brownish

SHALE

- fine grain
- light
- black
- bedding
- reacts
- mudcracks
- can't be thin like slate

ROCK SALT

- pinkish white
- tastes salt

MICRITE

- reacts with HCl
- contains lime mud
- grey, white, black
- smooth

WACKESTONE

- mud
- bioturbation

PACKSTONE

- reacts with HCl
- black, yellow - fossils

GRAINSTONE

- shiny when wet
- no lime mud
- white grains (lots)
- well sorted

FLOATSTONE

- looks like caf pizza dr. cheese pieces
- bioturbation
- bottom has holes
- grey, black, yellow

RUDESTONE

- bioturbation (A LOT)
- black & white
- big grains

- schist yellow
- almost tabular - bibi, unmet bascon
- u - bibi fatina

BANDSTONE

- yellow rust
- small grains
- bioturbation
- rigid
- white parts

COAL

- black
- no rxn
- can make mark on paper
- powdery

FELDSPAR-ARENITE

- very red
- small grain
- no rxn

METAMORPHIC ROCKS

SLATE

- pretty much a slab with bedding
- grey
- no rxn

PHYLLITE

- very fine grained
- grey
- can clearly see bedding lines
- no rxn

SCHIST

- shiny specy
- no rxn

GNEISS

- can see layers
- black & white
- no rxn

AMPHIBOLE

- dark colour
- plagioclase & hornblende
- weakly foliated
- salt & pepper
- medium to coarse grain

QUARTZITE

- very hard rock
- white, clear
- non foliated
- coarse grained

MARBLE

- reacts with HCl
- non-foliated
- coarse grained
- white

GARNET-BIOTITE SCHIST

- Foliated
- Fine/medium grained
- shiny
- lots of small minerals that are visible

STAUROLITE-MUSCOVITE SCHIST

- visible grains of staurolite (red)
- black brown - black/grey
- muscovites colour is orange/red/dk
- bedding