

# Mainstream” Igneous Rocks

- Ultramafic <40% SiO<sub>2</sub>
  - Plutonic: Dunite
  - Volcanic: Komatiite
- Mafic 40-50% SiO<sub>2</sub>
  - Plutonic: Gabbro
  - Volcanic: Basalt
- Intermediate 50-60% SiO<sub>2</sub>
  - Plutonic: Diorite
  - Volcanic: Andesite
- Felsic >60% SiO<sub>2</sub>
  - Plutonic: Granite
  - Volcanic: Rhyolite

# MINERAL ASSEMBLAGE

OBSERVED

Quartz \_\_\_\_\_ Fe-Ti Oxide \_\_\_\_\_ Olivine \_\_\_\_\_  
Alkali Feldspar \_\_\_\_\_ Amphibole \_\_\_\_\_ Pyroxene \_\_\_\_\_  
Mica \_\_\_\_\_ Plagioclase \_\_\_\_\_  
Na \_\_\_\_\_ Ca \_\_\_\_\_

TEXTURE

Fine

RHYOLITE      ANDESITE      BASALT

Coarse

GRANITE      DIORITE      GABBRO

Felsic      Intermediate      Mafic

MAGMA COMPOSITION

Plutonic / Volcanic

CRUSTAL ENVIRONMENT

INTERPRETED

Composition	Felsic (Granitic)	Intermediate (Andesitic)	Mafic (Basaltic)	Ultramafic
Rock types	Granite/Rhyolite	Diorite/Andesite	Gabbro/Basalt	Peridotite/Komatiite

