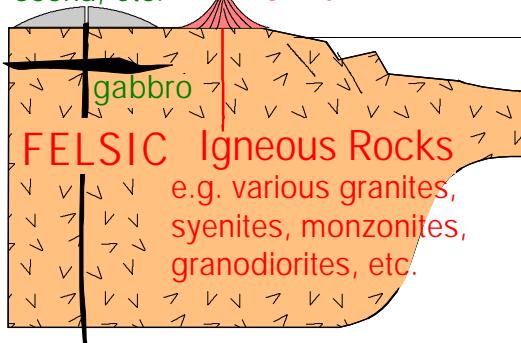


Continental Craton

Hot Spot

MAFIC basalt, scoria, etc.
e.g. rhyolites



Ocean Basin

Divergent Plate Boundary

pillow basalts

MAFIC igneous rocks

ULTRAMAFIC

(Igneous rocks of upper mantle)

e.g. peridotite/dunite

Convergent Plate Boundary

trench

INTERMEDIATE igneous rocks

e.g. diorite, granodiorites, plagiogranites

basalt/gabbro

Subduction Zone

fractional melting

fractionation residue

e.g. dunite, peridotite

Volcanic Arc



e.g. andesites

sea level

pillow basalts

trench

INTERMEDIATE igneous rocks

e.g. diorite, granodiorites, plagiogranites

basalt/gabbro

Subduction Zone

fractional melting

fractionation residue

e.g. dunite, peridotite