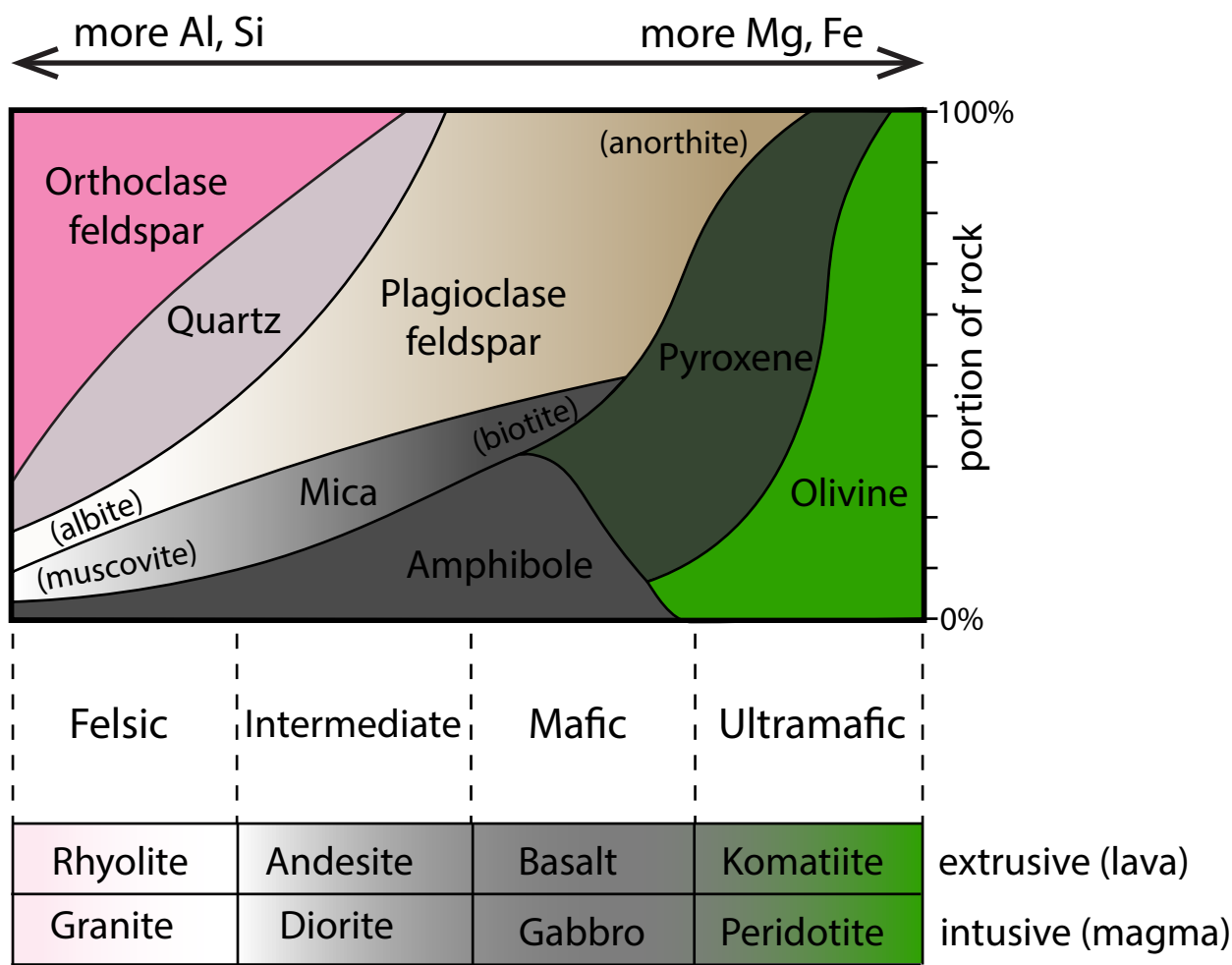


volcano



igneous composition



Bowen's reaction series

1600 °C
(totally molten)

Olivine



Pyroxene



Amphibole



Biotite



Orthoclase feldspar



Muscovite



Quartz

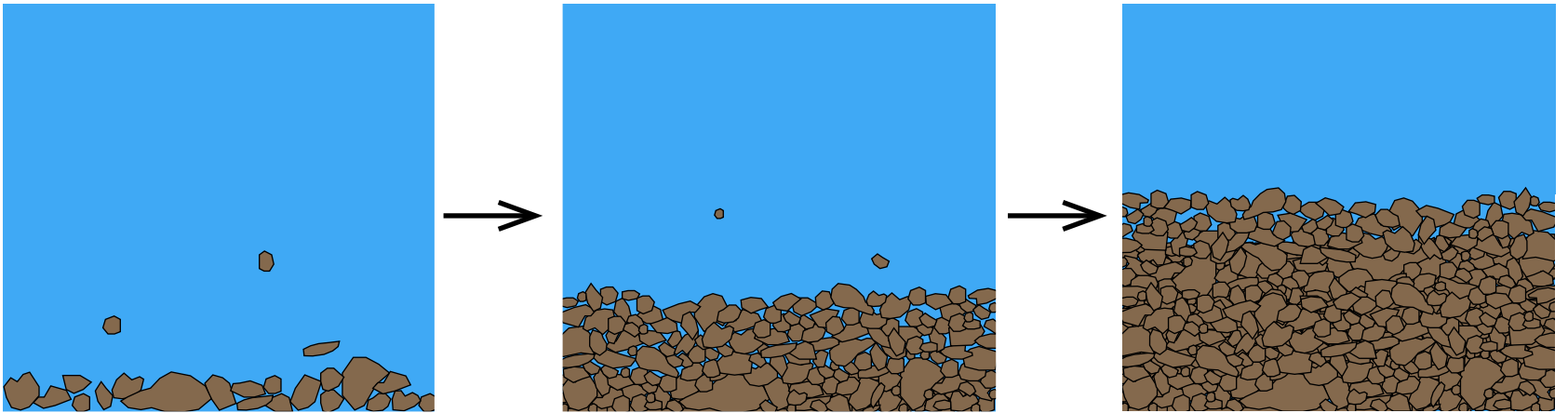


Plagioclase feldspar



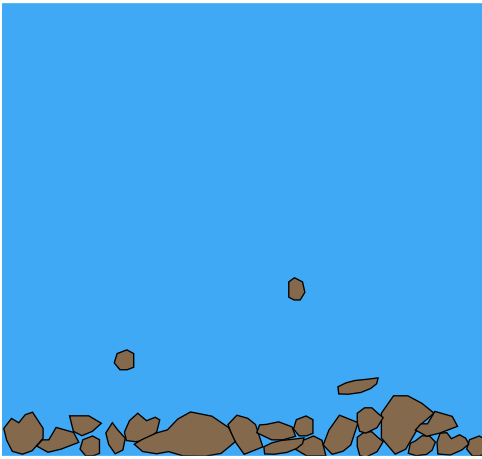
650 °C
(totally frozen)

sedimentation

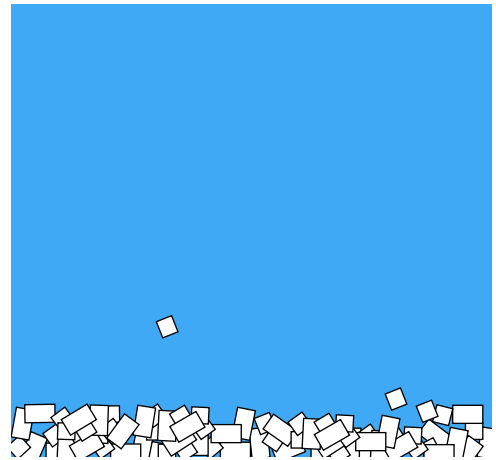


types of sedimentary rocks

clastic



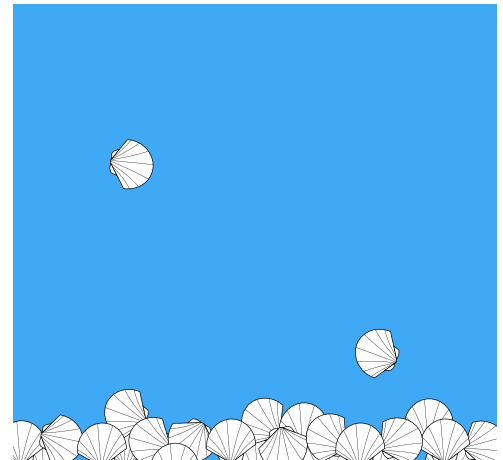
chemical



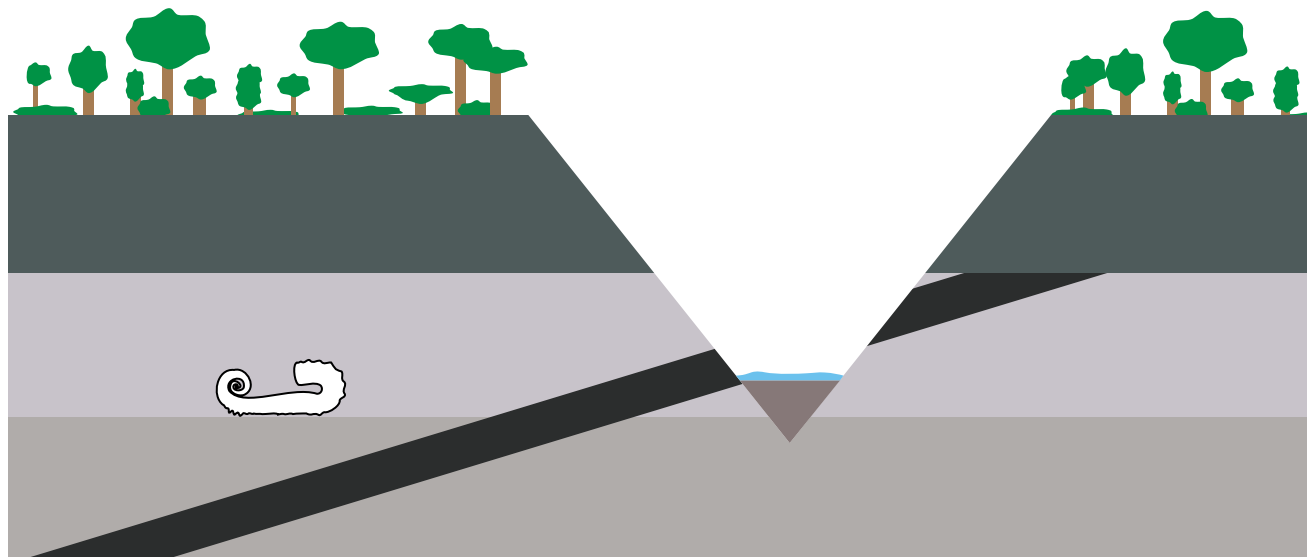
volcanic



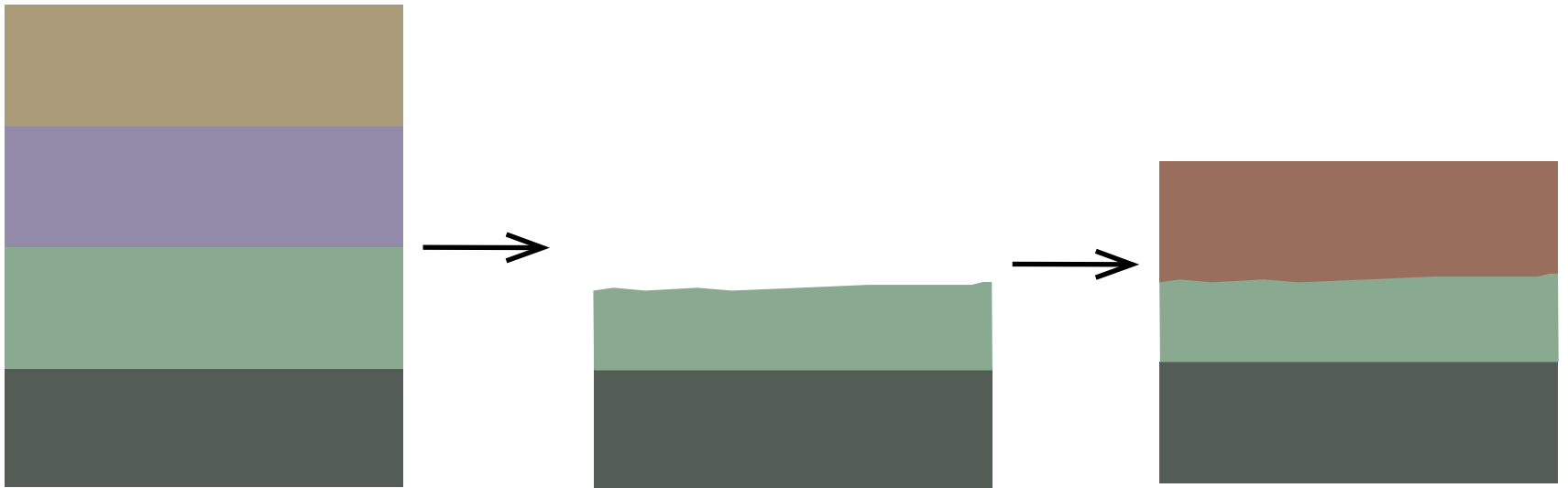
biological



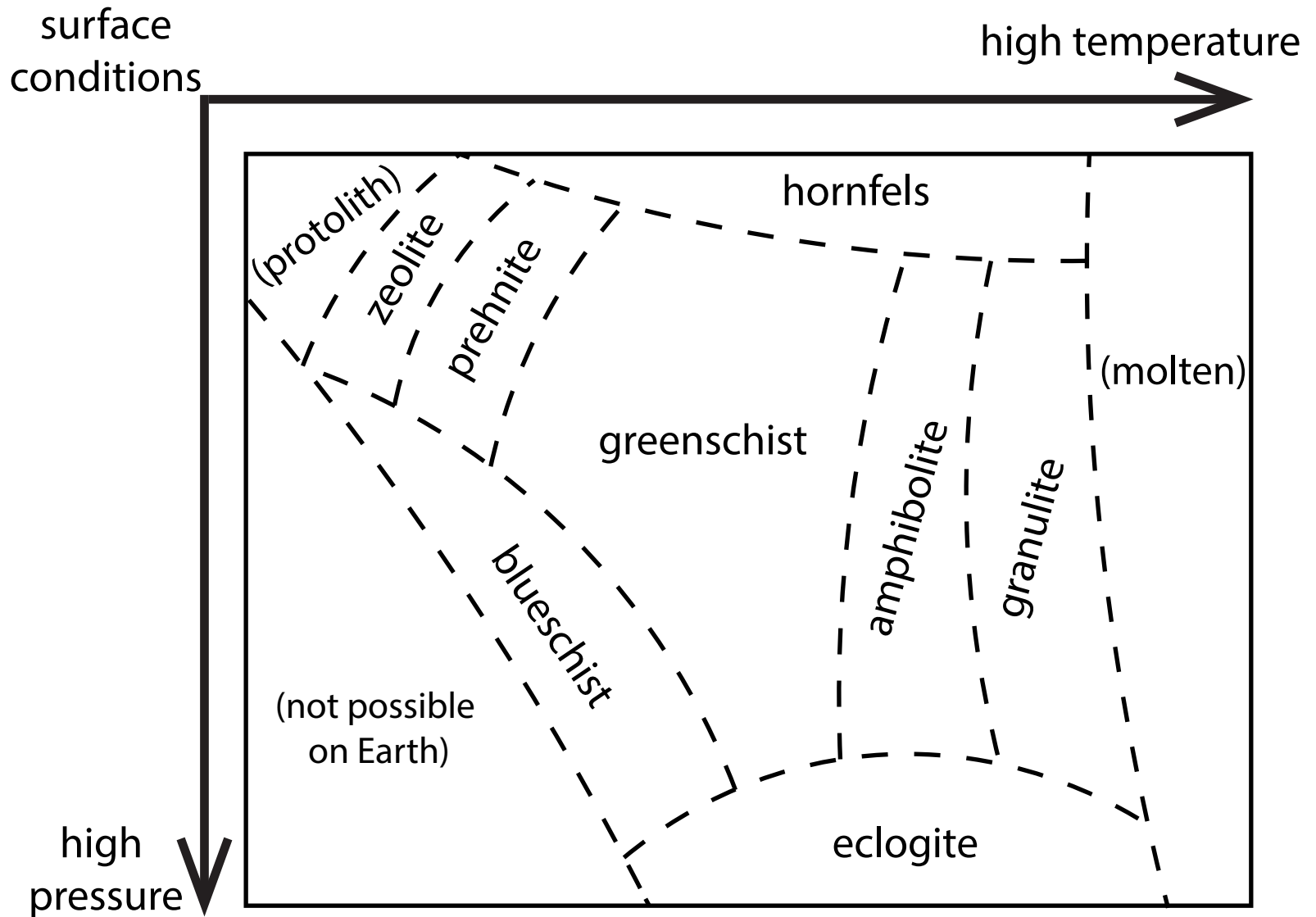
cross section



unconformity

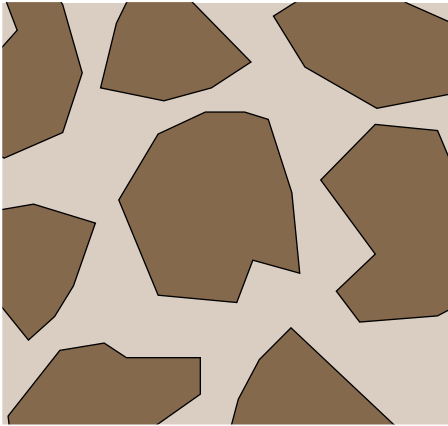


metamorphic facies

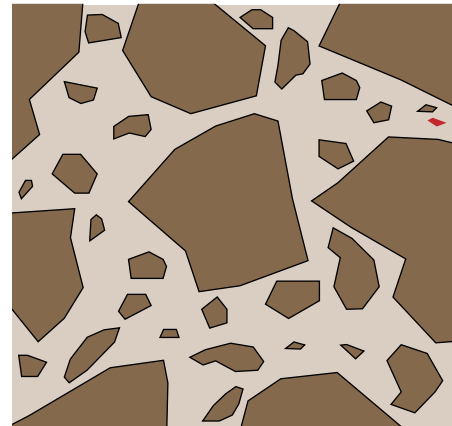


grain shape and sorting

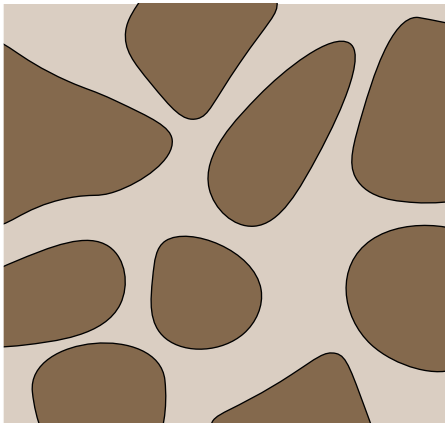
angular



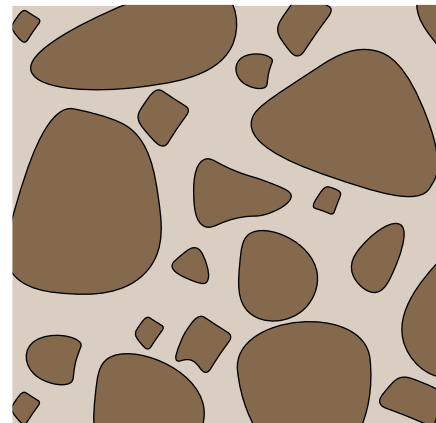
angular & poorly-sorted



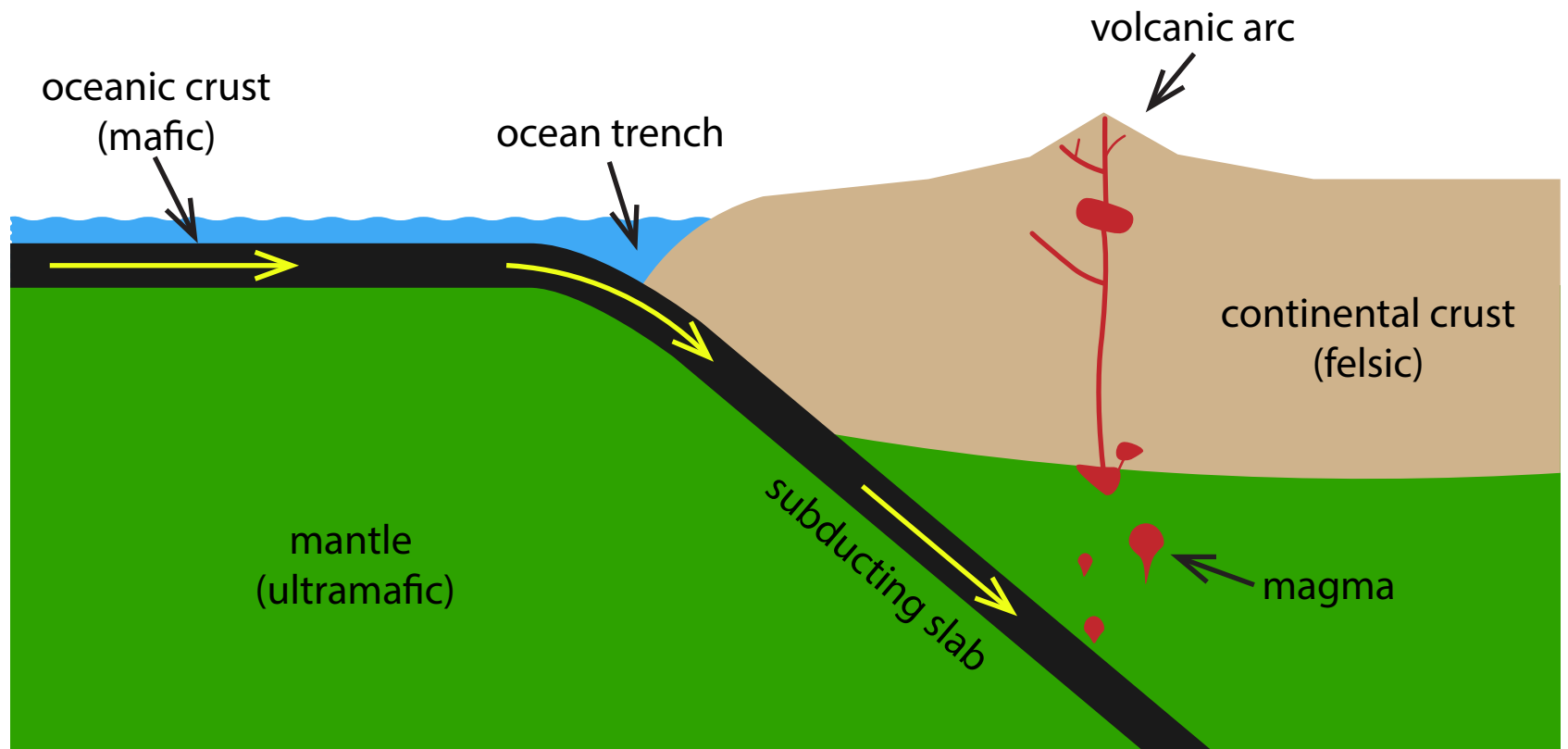
rounded



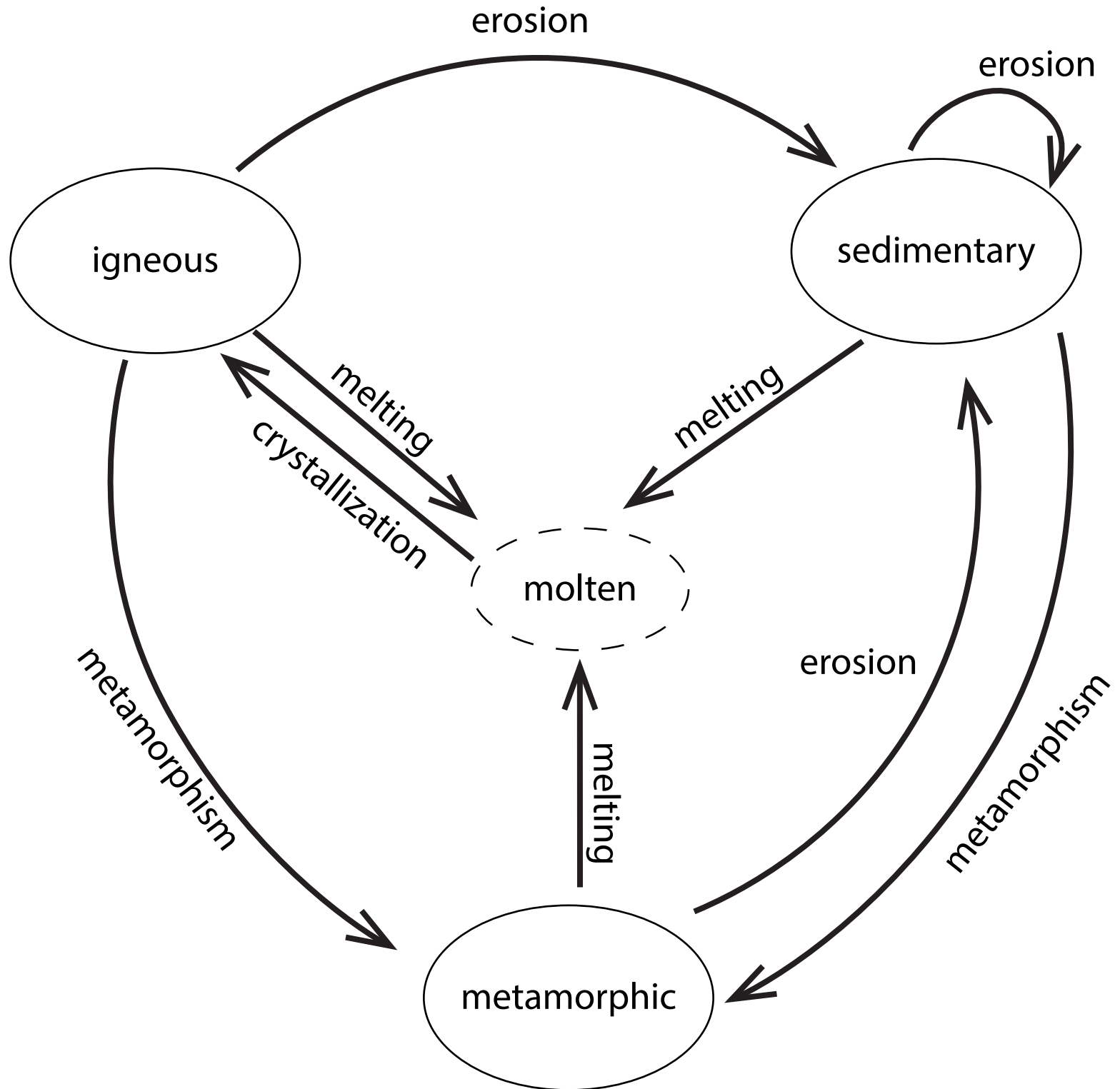
rounded & poorly-sorted



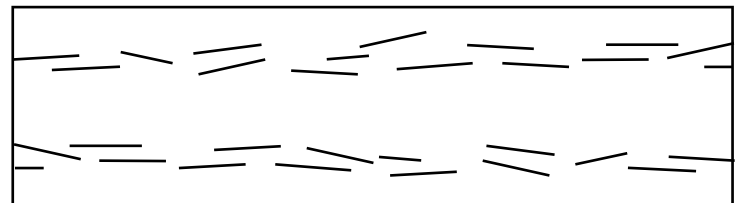
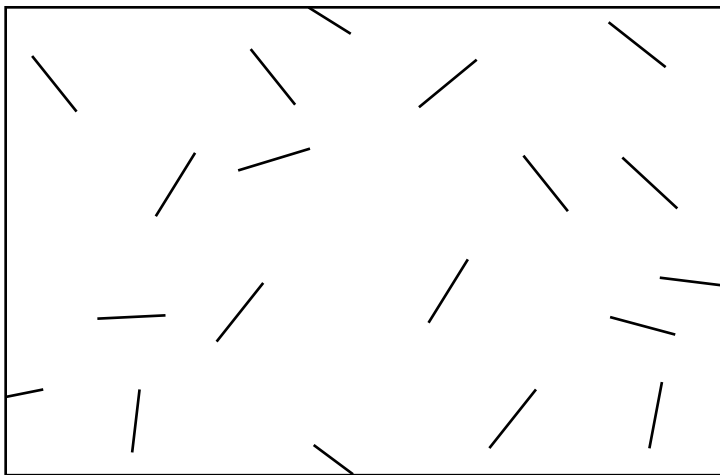
subduction zone



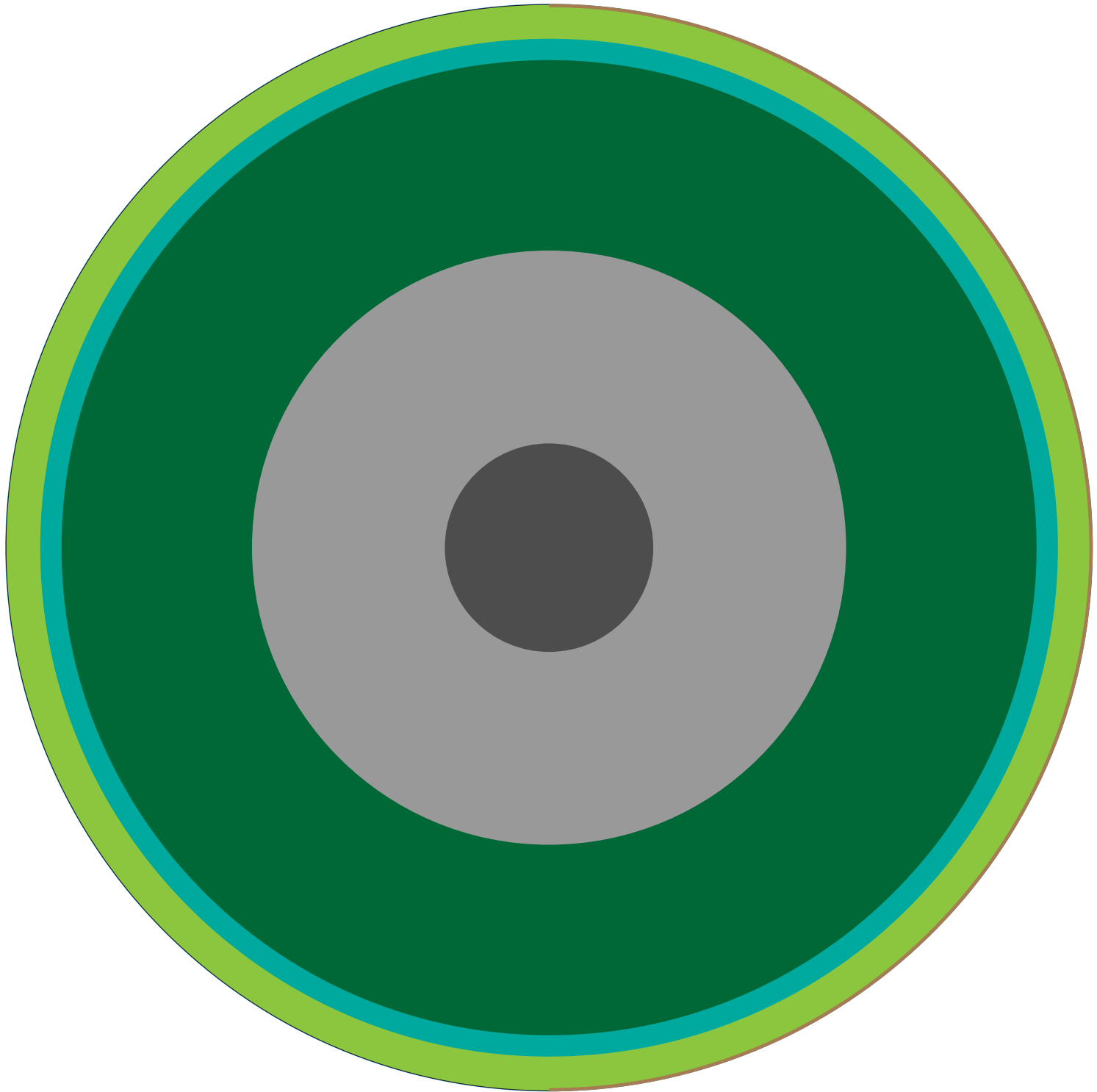
rock cycle



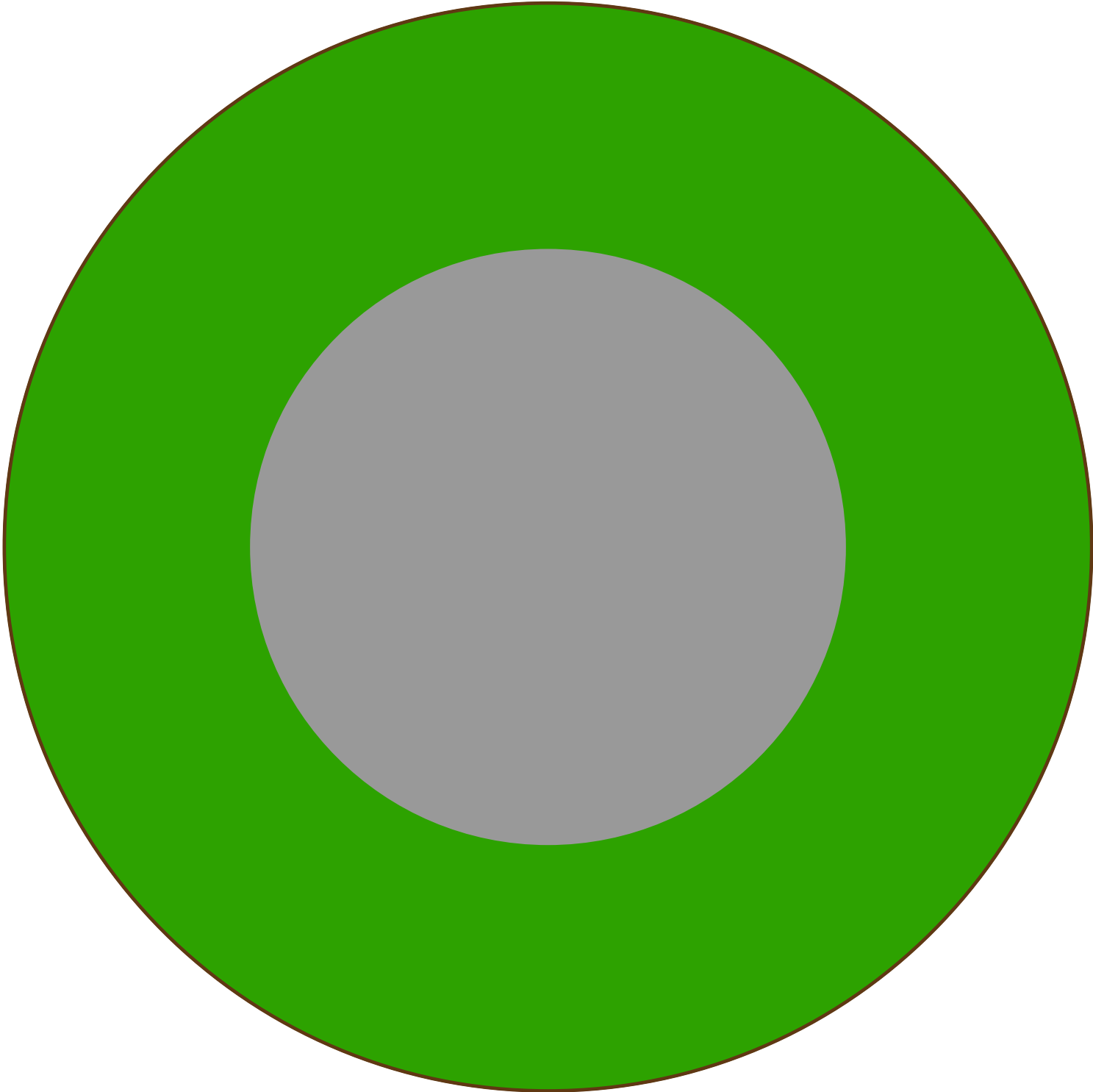
foliation



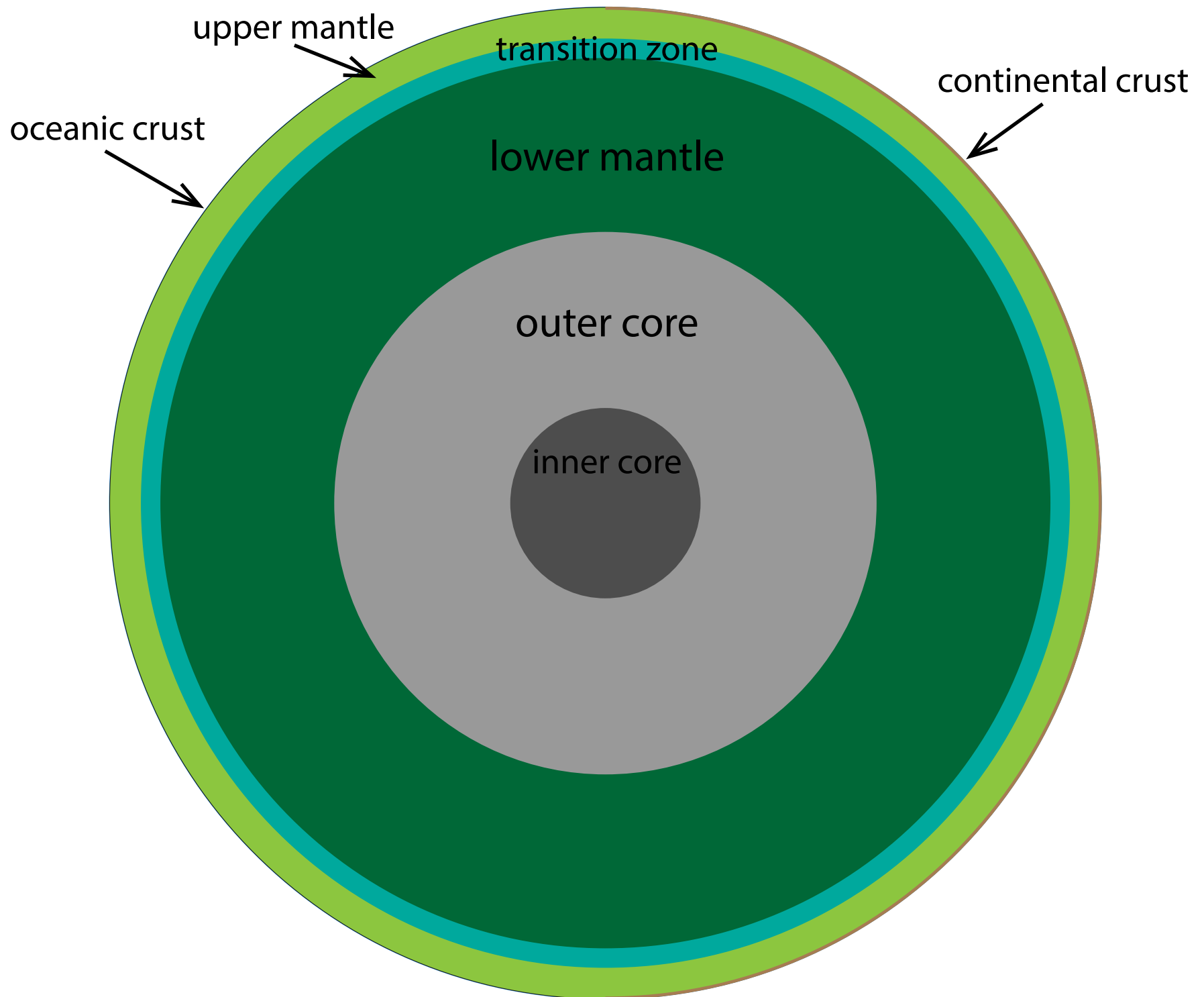
Earth cross section



Earth cross section (simple)



Earth cross section (labeled)



sedimentary grain size

Clast diameter (mm)	Clast name	Rock name	
>256	Boulder	Breccia (angular clasts) or Conglomerate (rounded clasts)	
64-256	Cobble		
2-64	Pebble		
0.6-2	Sand	Sandstone	
0.004-0.6	Silt	Siltstone	(or Mudstone)
<0.004	Clay	Claystone	