

Physical Geology Lab (Geol 113, Sections 004)

Age Dating (Lab Chapter #8, Page #151)

Objective:

Apply techniques of relative and absolute age dating of Earth materials and events.

Read pages 151-155 (including figures on pages 154-155) and 160-162.

We will briefly discuss the following terms.

Formations

Relative Age Dating:

Law of Original Horizontality

Law of Lateral Continuity

Law of Superposition

Law of Inclusions

Law of Cross-Cutting Relations

Law of Unconformities (disconformity, angular unconformity, nonconformity)

Principle of Fossil Succession

Index fossils

Range zone

Absolute Ages by Radiometric Dating:

Isotopes (radioactive and stable)

Radioactive Decay

Parent – Daughter (decay pair)

Half-Life

We will then discuss Figures 8.1 through 8.8 and work through problems 1 - 3 and 8 - 12.