

## **Integrated Science - Geosphere 1-5** **(Rock Cycle / Layers of Earth / Principles of Geology)**

List of reference material and practice sheets: (collect all of these materials...)

### Geo 1&2 (Rock Cycle)

- Geo 1&2 Notes: Rocks, Minerals, and How They Change
- Geo 1&2 Notes: Modeling the Rock Cycle (crayon "lab")
- Geo 1&2 Practice 3 (worksheet): paper Rock Cycle

### Geo 3 (Earth's Layers)

- Geo 3 Notes
- Geo 3 Layers Practice
- Geo 3 Convection Currents Practice

### Geo 4&5 (Principles of Geology)

- Geo 4&5 Notes Part 1: Principles of Geology - Part 1
- Geo 4&5 Practice 1  
(Geo 4&5 Practice 2)
- Geo 4&5 Notes Part 2: Unconformities
- Geo 4&5 Practice 3&4
- Geo 4&5 Notes Part 3: Faults and Folds
- Relative Dating Practice (in class)
- Geo 4&5 Practice 5&6
- Geo 4&5 Notes Part 4: Intrusions and Inclusions
- Geo 4&5 Practice 7

### Key terms and concepts

#### **Geo 1&2**

- sediment
- accumulation
- sedimentary
- metamorphic
- igneous
- magma
- processes: heat, pressure, cementing, compacting, melting, cooling, weathering, erosion

#### **Geo 3**

- crust
- mantle
- core
- lithosphere
- asthenosphere
- tectonic plates
- density and temperature
- convection currents
- "primordial energy"
- radioactive decay

## Geo 4&5

principle of uniformitarianism

principle of superposition

principle of original horizontality

principle of faunal succession

relative dating

erosional boundary

unconformity

    disconformity

    angular unconformity

    nonconformity

plates move

    converge

    diverge

        rift / rift valley

    transform (transverse)

faults

    normal

    reverse

        thrust

    strike-slip

folds

    anticline

    syncline

intrusion

principle of intrusion

    sill

    laccolith

    dike

    batholith

inclusion

principle of inclusion

cross-cut

principle of cross-cutting