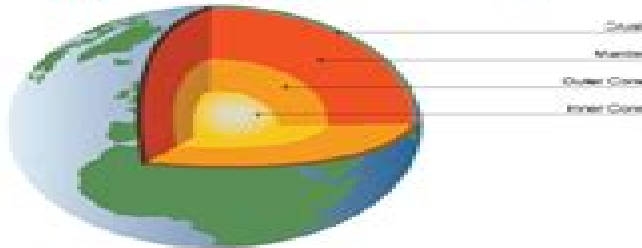


# 1<sup>ST</sup> TERM SCIENCE REVIEWER

## I. Layers of the Earth



### BOUNDARIES (BETWEEN LAYERS OF THE EARTH)

- ✚ **MOHOVICIC DISCONTINUITY**
  - interface between the crust & mantle
- ✚ **GUTENBERG DISCONTINUITY**
  - marks as the boundary between the mantle & the outer core
- ✚ **LEHMAN DISCONTINUITY**
  - between the liquid outer core & the solid inner core

### CRUST

- ✓ **outermost layer of the earth** (where life exists)
- ✓ composed of major & minor blocks of rocks (which we refer to as tectonic plates)
- ✓ **2 TYPES:**
  - **CONTINENTAL CRUST**
    - 40 - 70km (thick)
    - made up of dense granitic rocks
    - (Al<sub>2</sub>O<sub>3</sub>) ALUMINA - 15.2%
    - (SiO<sub>2</sub>) SILICA - 60.2%
  - **OCEANIC CRUST**
    - average thickness of 5km
    - made of denser basaltic rocks
    - (Al<sub>2</sub>O<sub>3</sub>) ALUMINA - 16.5%
    - (SiO<sub>2</sub>) SILICA - 48.6%

### MANTLE

- ✓ **below the crust** (Volcano is a structure from the crust that has direct connection to the mantle)
- ✓ semisolid rocky & very hot
- ✓ 2900km (thick)
- ✓ **80% of the earth and carries most of its mass**
- ✓ composed of ferro-magnesium silicate rocks
- ✓ **TOP LAYER: 900°C** (and increases from 1000°C to 3700°C)

### OUTER CORE

- ✓ **between the mantle & inner core**
- ✓ only layer of the earth that is **LIQUID**
- ✓ **made up of molten nickel & iron**
- ✓ 2270 km (thick)
- ✓ **TEMPERATURE: 3700°C to 4300°C**

### INNER CORE

- ✓ diameter of about 1220km
- ✓ composed of mostly **solid iron** (which gives the planet its magnetic characteristics)
- ✓ **extremely hot (TEMPERATE: 6000°C)** → gives off the **most pressure**

### EXTRA INFO

#### LITHOSPHERE

- crust & upper layer of the mantle
- rigid layer that can break under stress

#### ASTHENOSPHERE

- below the lithosphere
- 850km thick & contains magma
- can deform and reshape under the heat from the magma

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