

Outer Core = liquid forms of iron and nickel
Inner Core =sold form of iron and nickel

4 Major Layers of Earth



• **Crust** = thin component of Earth's surface (oxygen, silicon)

Mantle = malleable layer on which the crust floats
Lithosphere includes crust & upper mantle
Asthenosphere-lower part that is semi-molten





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Lithosphere

tinental cr



















• Next layer up—stratosphere contains ozone which O₃

4 Spheres

• 2) Hydrosphere

- <u>3) Geosphere:</u> Earth's crust, mantle and core—rock systems non renewable fuels...soil that contains nitrates, phosphates—support life
- <u>4) Biosphere</u>
- Includes all layers of the atmosphere, hydrosphere and geosphere where life exists
- Divided into Biomes—distinct climate regions, unique animal and plant life....

Earth's Atmosphere

- Layer of gases surrounding the planet Earth and retained by the Earth's gravity.
- It contains roughly 78% nitrogen, 21% oxygen, and 1% other.
- Its five layers differ in temperature, density and composition
- Human activity is changing the amounts of some gases







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SOLAR RADIATION

- Solar Radiation (Insolation) is Earth's main source of energy and is dependent on season and latitude.
- Angles of sun's rays determine the intensity of solar radiation.
- Tilt of Earth's axis of rotation causes the number of hours of daylight in particular location.





































