Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_\_\_ Binder Page #\_\_\_\_\_\_

**Layers of the Earth** – “Fill in the Blank” Notes

![C:\Users\mreitsma\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\U0D497H8\structure_of_the_earth_plate_tec[1].jpg]()

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Crust** | **Mantle** | **Outer Core** | **Inner Core** |
| **Solid/Liquid?** | Thin, R\_\_\_\_\_\_\_\_ | H\_\_\_\_ / p\_\_\_\_\_\_\_\_\_\_\_\_semi-molten, weak | L\_\_\_\_\_\_\_\_\_\_\_ | S\_\_\_\_\_\_\_\_\_ |
| **Thickness/depth** | Ocean: \_\_\_\_\_ kmContinents: up to  \_\_\_\_ km | \_\_\_\_\_\_\_\_\_ km  | \_\_\_\_\_\_\_\_ km | \_\_\_\_\_\_\_\_ km |
| **Temperature** |  |  | \_\_\_\_\_-\_\_\_\_\_\_Celsius | \_\_\_\_\_\_-\_\_\_\_\_\_ Celsius  |
| **Composition** | G\_\_\_\_\_\_\_ / B\_\_\_\_\_\_\_\_ | I\_\_\_\_\_\_ / M\_\_\_\_\_\_\_\_\_\_\_ | I\_\_\_\_\_\_ / N\_\_\_\_\_\_\_\_\_\_ | I\_\_\_\_\_\_ / N\_\_\_\_\_\_\_\_\_\_\_ |
| **Extra????** |  | C\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs here |  | solid because of P\_\_\_\_\_\_\_\_\_\_\_\_ |

**Lithosphere** -S\_\_\_\_\_\_\_\_, T\_\_\_\_\_\_\_\_ layer of E\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 -consists of C\_\_\_\_\_\_\_\_\_\_ and U\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mantle

**Asthenosphere** -M\_\_\_\_\_\_\_\_\_\_\_\_\_ layer of the M\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 -C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells occur here

**Video Notes**

**Plates**  Carries C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, Ocean Basins, or B\_\_\_\_\_\_\_\_\_

 Move at an average of \_\_\_\_\_\_\_\_\_\_ inches per year

**Convection** As M\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ material moves, it causes P\_\_\_\_\_\_\_\_\_\_\_\_\_ to move above it as well

**Types of Plate Boundaries** **Divergent:** Plates move A\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Convergent:** Plates move T\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Transform:** Plates S\_\_\_\_\_\_\_\_ P\_\_\_\_\_\_\_ each other

**What happens at Plate Boundaries?**

 **Divergent:** \*P\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ move apart

 \*M\_\_\_\_\_\_\_\_\_\_\_\_ rises to fill the G\_\_\_\_\_\_\_

 \*New C\_\_\_\_\_\_\_\_\_\_\_\_\_ is added

 \*Mid-Ocean R\_\_\_\_\_\_\_\_\_\_\_\_ is created

 **Convergent:** \*Plates move T\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 A. O\_\_\_\_\_\_\_\_\_\_\_\_ plate sinks U\_\_\_\_\_\_\_\_\_\_\_\_ continental plate

 \*Subduction Z\_\_\_\_\_\_\_\_\_\_ created

\*Deep T\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 B. Continental plate meets C\_\_\_\_\_\_\_\_\_\_\_\_\_ plate

 \*M\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ formed