

2 Ways of dividing ⊕

1. By composition

A = crust - silica (quartz, feldspar)

B = mantle - silica + iron

C = core - iron (and nickel)

Moho - boundary line between crust and mantle

Word List

- Asthenosphere
- Crust
- Core
- Inner Core
- Lithosphere
- Mantle
- Outer Core

2. By Physical State

D - lithosphere - solid

E - asthenosphere - plasticity / partly molten

part of B - mantle - solid

F - Outer core - liquid

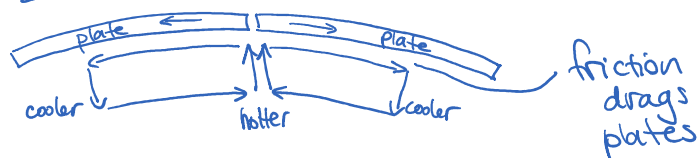
G - Inner core - solid

Inside the layers

① Plates are the broken pieces of lithosphere

- they move due to either/both

- convection in asthenosphere



- and/or - slab pull - downgoing plate edge pulls the rest of the plate too.

② Earth's magnetic field is caused mainly by convection in the liquid outer core (moving ions in magma)

- solar prominences send particles that interact with magnetic field = aurora

- magnetic poles reverse periodically

After 4.5 billion years, why is ⊕ still molten inside?!

- Radioactivity keeps things hot.