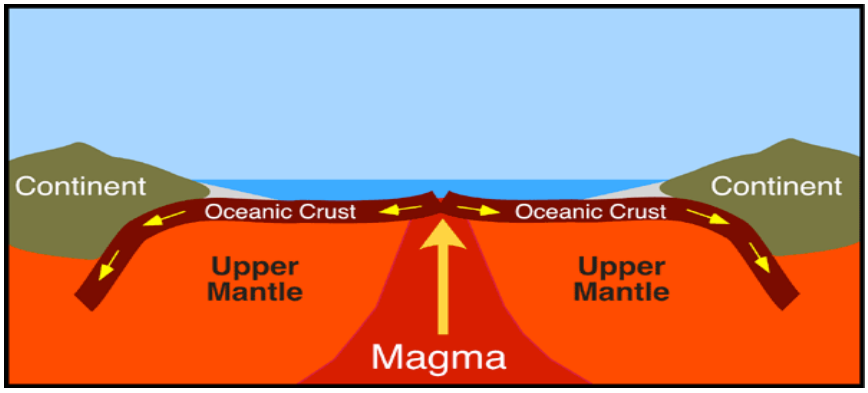
Sea-Floor Spreading Notes

Name: _____ Day/Block: _____

1. **What is Seafloor Spreading?** A process that forms _____.

- _____ rises up on the ocean floor where it _____ _____,
- This makes _____ocean floor.
- Seafloor Spreading occurs at _____,
- These are _____ boundaries



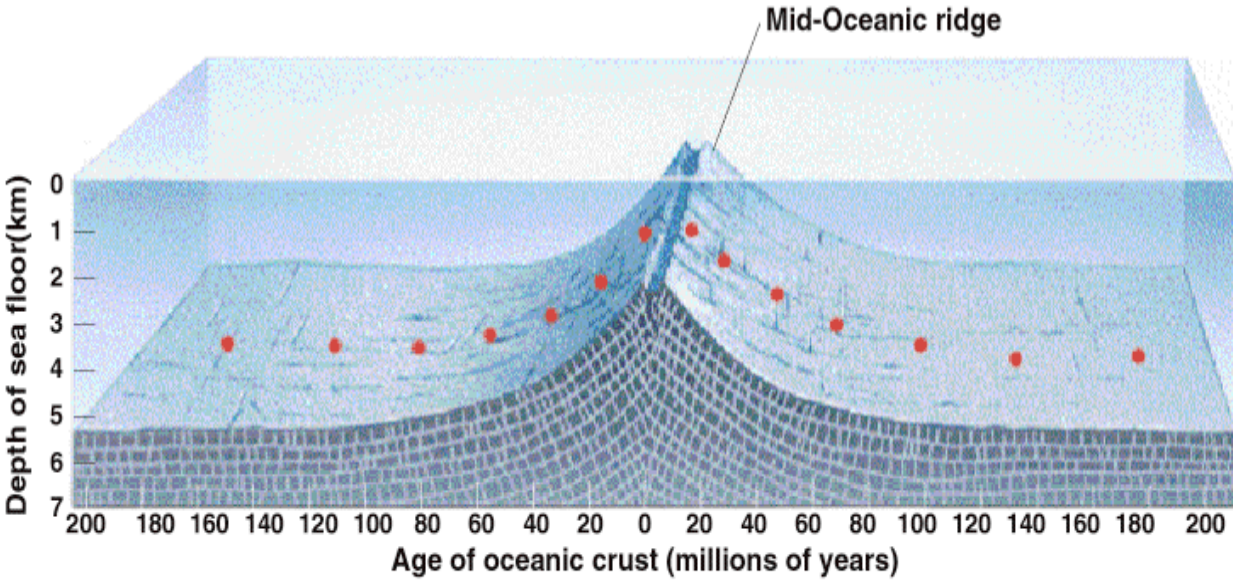
On the picture to the left label:

- Subduction Zones
- Divergent boundary

Draw Convection Currents

2. **Where is the youngest oceanic crust located?** In the _____of the ridge.

- The _____ oceanic crust is in the _____at mid oceanic ridges
- The _____ oceanic crust is near the continents at _____.
- The ages of the ocean floor "_____" each other from the center

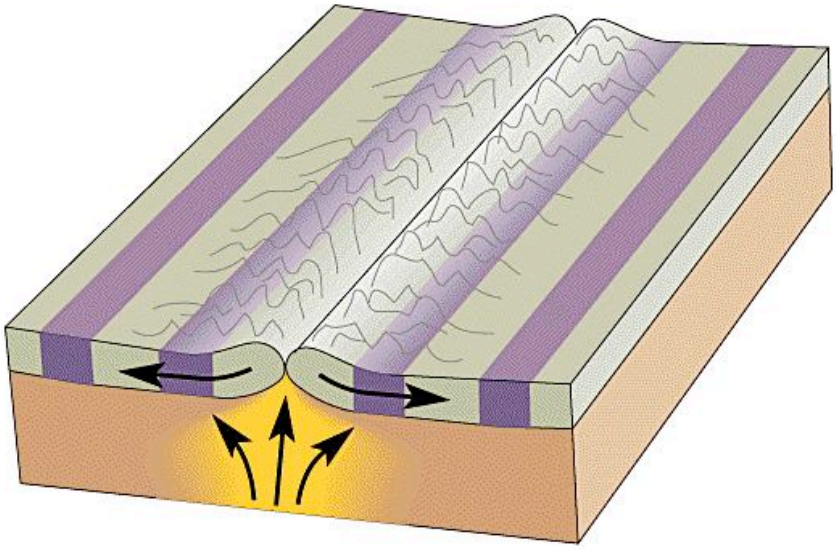


Draw arrows on the picture above to show directions of movement

3. **Magnetic Pole Reversals**?

Does the center of the ridge always show the _____ of the **North and South poles?** _____, the **current magnetic orientation** is found at the **center** ***where new rock is forming from lava.***

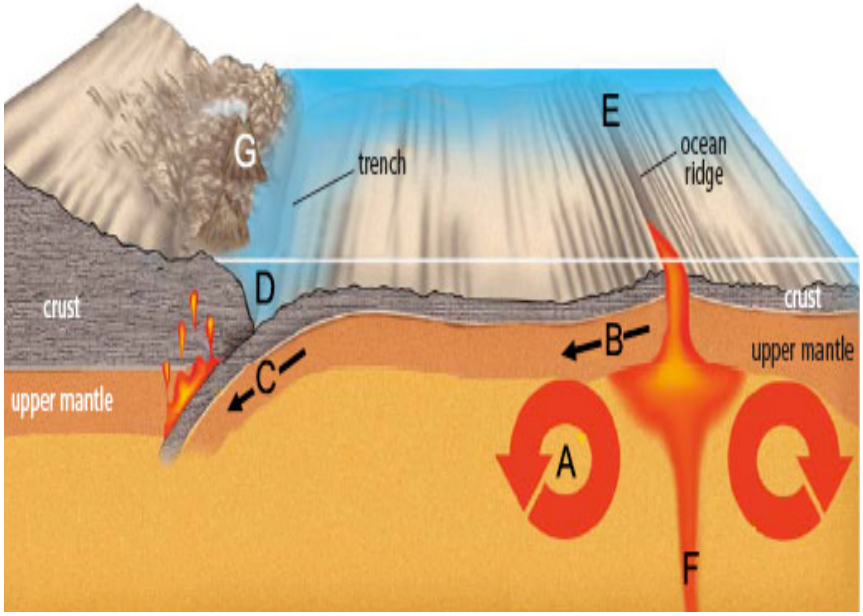
- But, in the past, **our compass needles pointed to the** _____, before that they pointed to the magnetic _____,
- This is a _____
- Magnetic _____ in the lava points either North or South.
- Lava forms bands of _____ on both sides of the **mid-ocean ridge.**
- They record _____.



Magnetic field oriented as it is today
Magnetic field reversed

On the figure to the left, **Label the magnetic orientations (North or South)** on the bands of rocks along the mid ocean ridge

Label where the **youngest and oldest oceanic crust** is located



Identify the features/events

A. _____

B. _____

C. _____

D. _____

E. _____

F. _____

G. _____