# **Daily Routine**

- Sit in your appropriate seat quietly
- Have all necessary materials out
- All back packs on the floor
- All cell phones on silent and away in backpacks
- All IPods off and headphones out of your ears
- No food or drink except for water

### Bellwork

• What are the lithosphere and asthenosphere?

• Describe how plates interact with each other at the three types of plate boundaries?

### Plate Tectonics: Plate Boundaries

### I will be able to...

# Hot Spot Plate Tectonics

- 1. Using a ruler and the map provided, measure the distance between the first volcano (Kilauea) and the other island volcanoes.
- 2. Convert the measurements into kilometers, using the scale on the map.
- 3. Record the distance on the table "Age of the Hawaiian Islands and Outer Seamounts."
- 4. Create a graph with distance in kilometers on the "Y" axis and age in millions of years on the "X" axis, and plot your data.
- 5. Draw a line to represent the best fit of your data.
- 6. The slope of the line will give you the speed of the plate, in kilometers per millions of years.
- 7. Extension: Convert the speed from km/millions of years to centimeters per year.

# Hot Spot Plate Tectonics

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### **Conversion Factor**

