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 music devices off and headphones out of your ears
- No food or drink except for water

Bell Work

• What is topographic map? What is it used for in science?

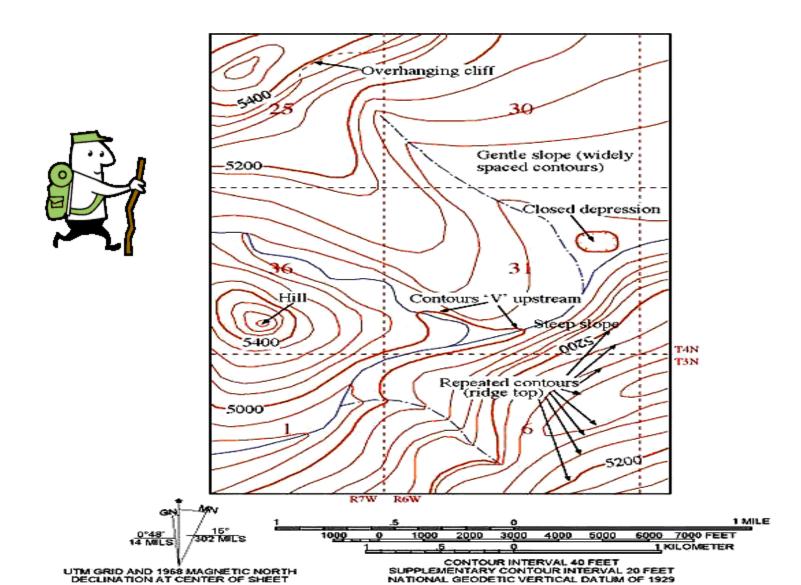
• What is a contour interval?

Earth Science Announcements

Quiz on Friday (Metric, Density, and Latitude and Longitude

Topographic Map Project Due January 23rd

Topographic Maps



Unit: Maps

Topic: Topographic maps

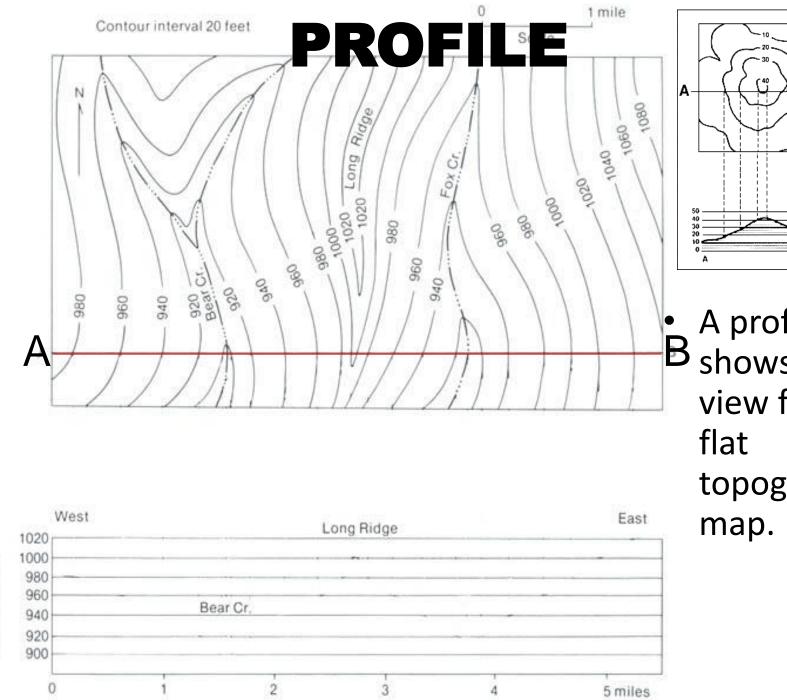
Objectives: I will be able to:

- To learn about topographic maps
- To learn mapping basics, such as contour lines and intervals
- To learn contour rules
- To draw a profile from contour lines on a topographic map

Going back to the Topo Maps: Answer in complete sentences!!!

- Describe the topography of your mapped area? Is it steep or gradual sloped? <u>Be detailed!!!</u>
- Describe the shape of the contour lines around rivers on the map.
- Try to find the highest point on the map. What is the elevation. Is the land steep or flat? Explain using the contour lines.
- What other symbols do you see on the map?
 What could these symbols represent?

Practice Drawing Contour Lines



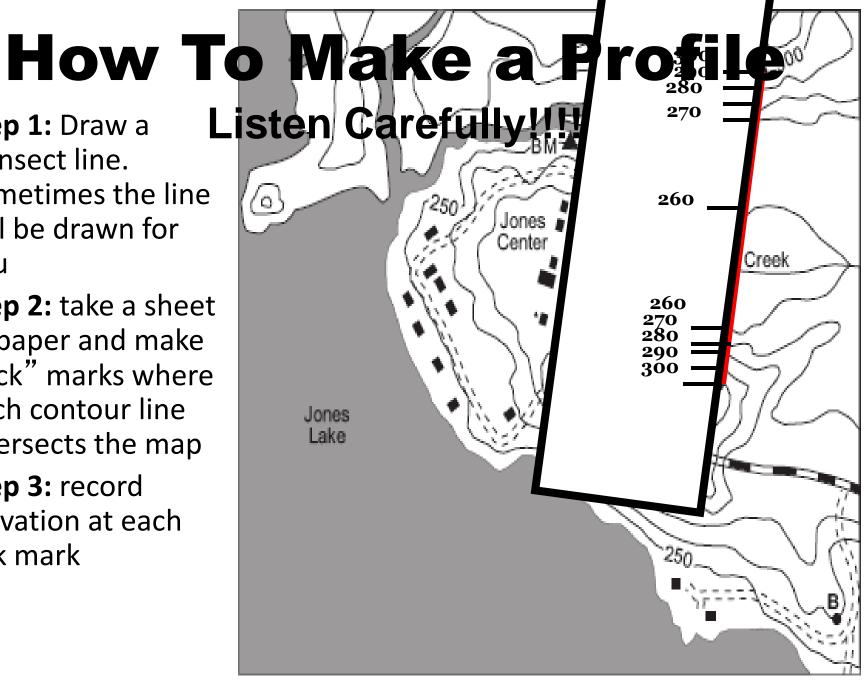
 A profile
 B shows a side view from a topographic

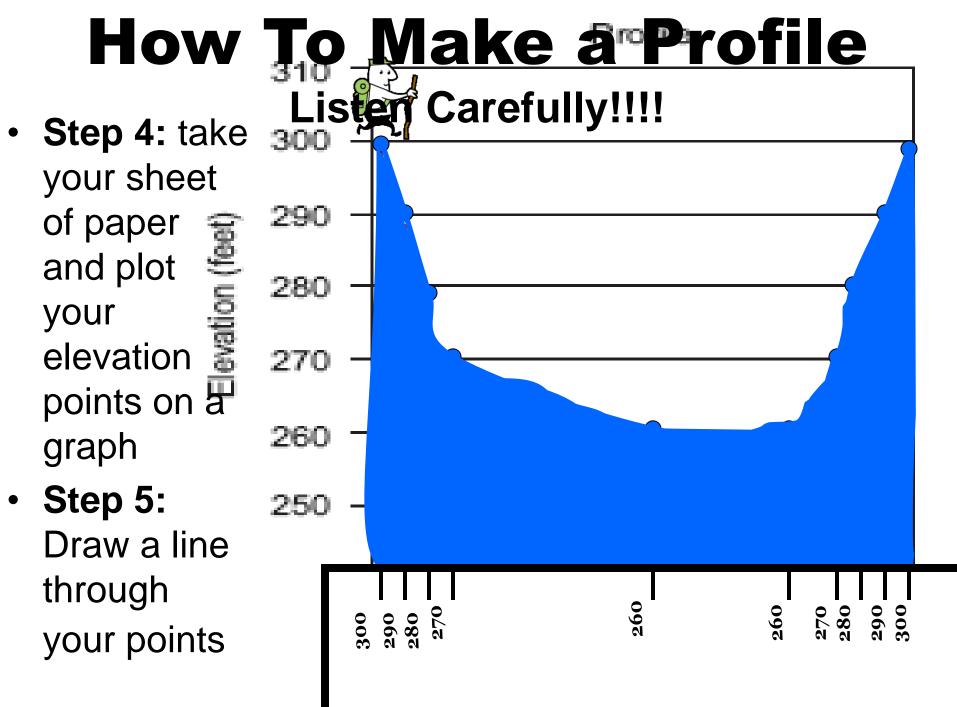
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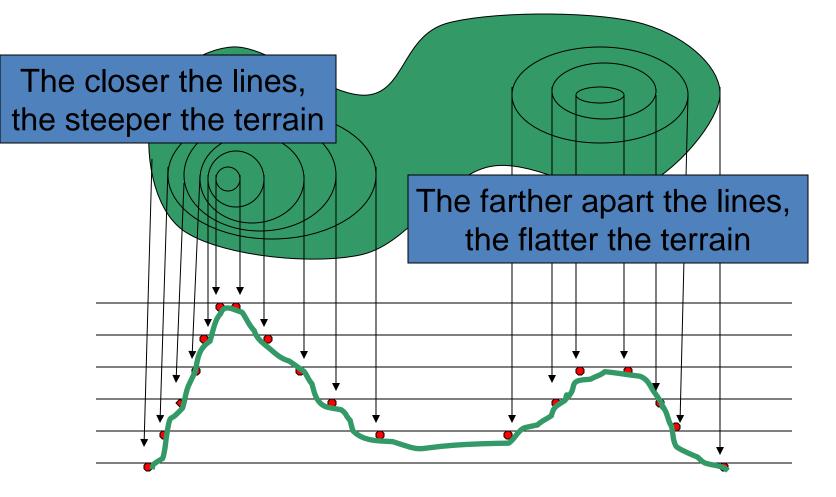
Elevation, feet

- Step 1: Draw a transect line. Sometimes the line will be drawn for you
- Step 2: take a sheet of paper and make "tick" marks where each contour line intersects the map
- Step 3: record elevation at each tick mark





Changing from top to side



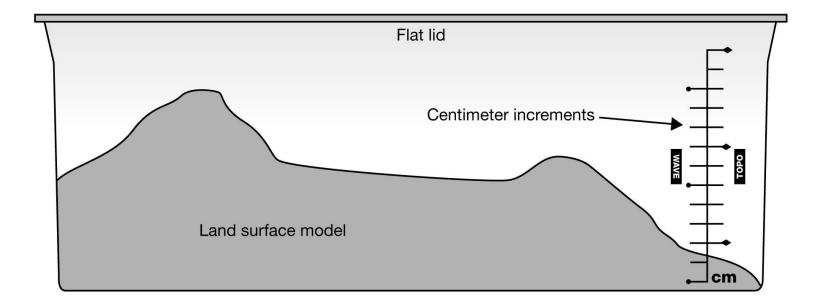
Practice Drawing a Profile

Creating a Topographic Map and Profile of a Volcano

 Thanks to CPO Science for making slides demonstrating the lab

Making a topographic map-Using the GeoBox

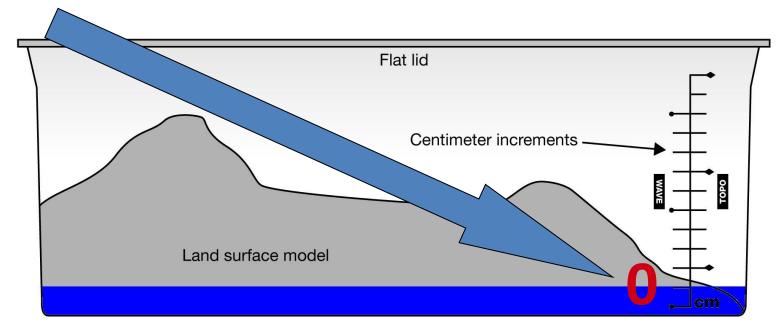
- •The GeoBox has a sticker on the side.
- Each mark on this sticker represents one centimeter.
- •Pour water into the GeoBox up to the first centimeter line.



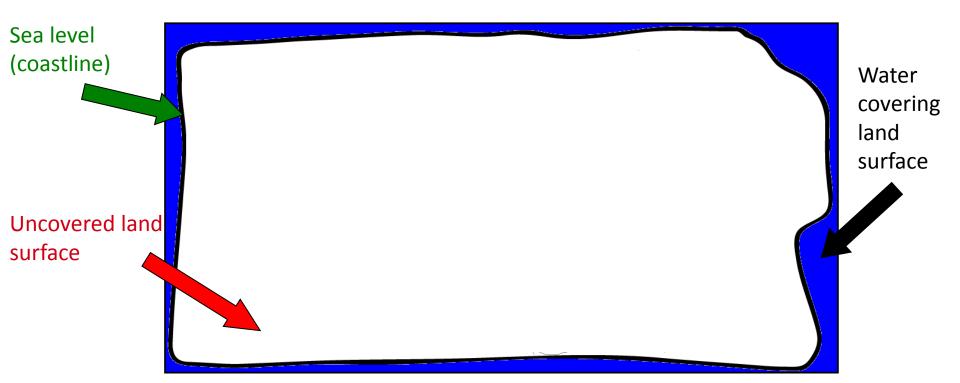
Making a topographic map-Using the GeoBox

•The GeoBox has a sticker on the side.

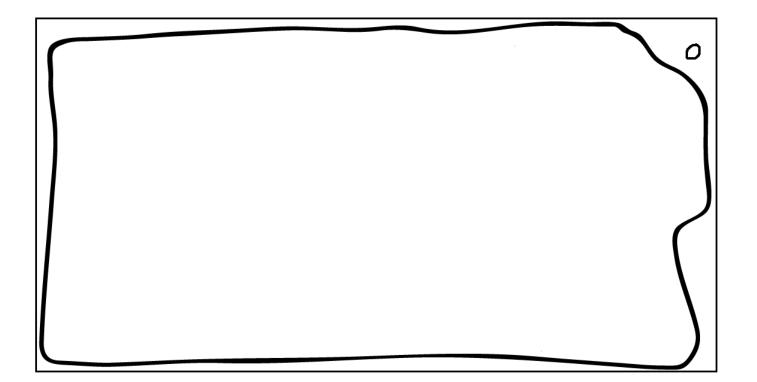
- Each mark on this sticker represents one centimeter.
- •Pour water into the GeoBox up to the second line. This will be our zero mark



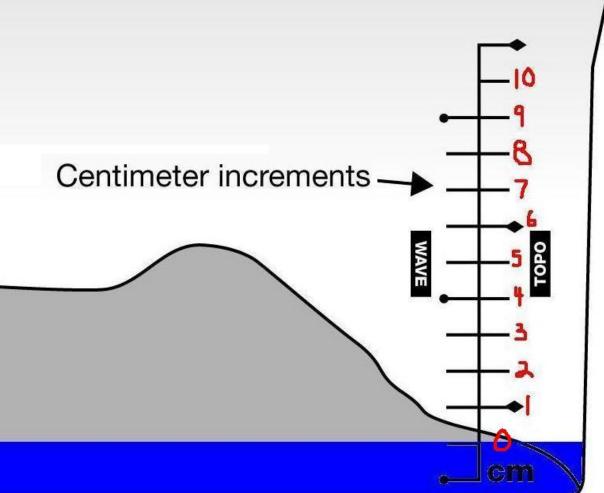
- •Place the topo lid on the GeoBox.
- •Stand over the GeoBox so that you are looking down on the topo form.
- •With the overhead projector marker, outline the perimeter of the land surface onto the lid.
- •This will be considered "sea level," or the 0 meter contour line.



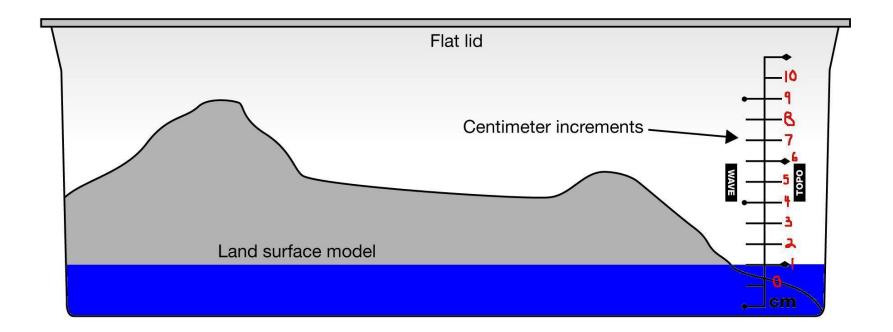
•Label the 0 cm line



•Now, using you marker, number each centimeter above sea level.

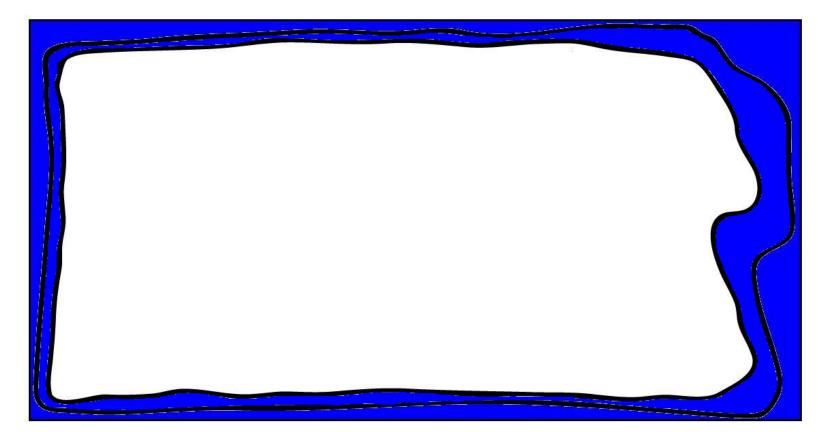


•Remove the topo lid and add water until the water level reaches the 1-centimeter mark.



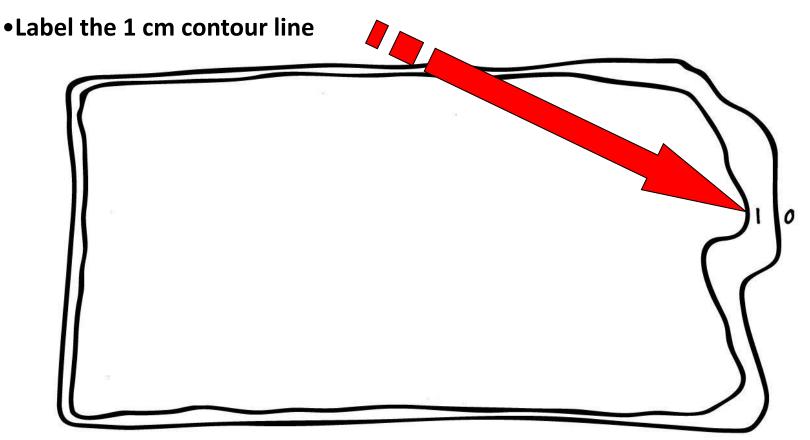
•Replace the lid. Trace the "coastline," the line along which the water and land meet, onto the lid.

•All points on this line are 1 cm above sea level. They form a contour line, a line of equal elevation.

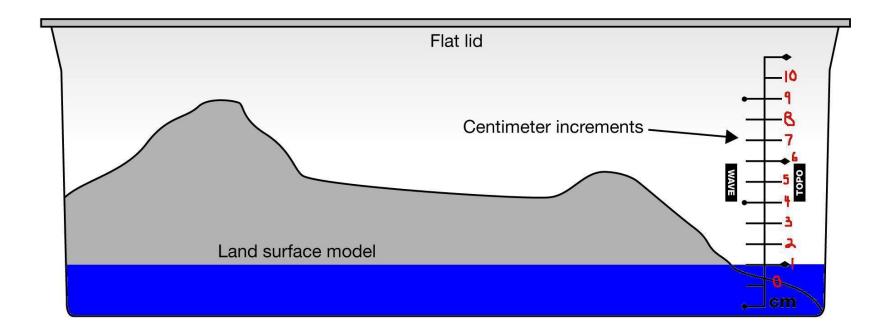


•Replace the lid. Trace the "coastline," the line along which the water and land meet, onto the lid.

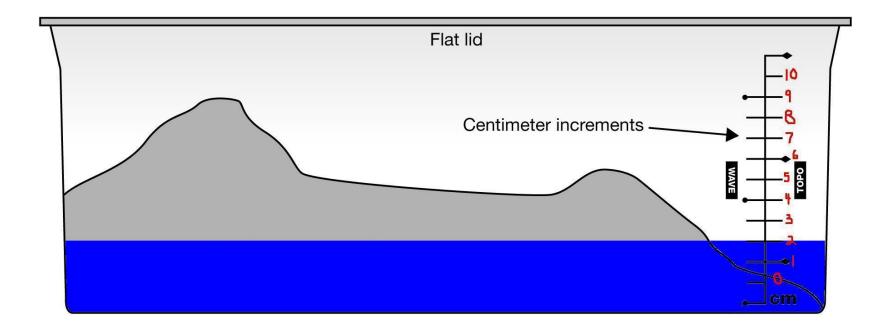
•All points on this line are 1 cm above sea level. They form a contour line, a line of equal elevation.



•Add water to the level of the 2 centimeter mark.



•Add water to the level of the 2 centimeter mark.



•Replace the lid and again, trace and label the "coastline."

•All points on this line are 2 centimeters above sea level.

