

PHSC 2105 – Honor's Physical Science Lab
Lab 5 – Steno's Principles and Uniformity

From "Seashell on a Mountaintop" or from the following websites:

<http://www.ucmp.berkeley.edu/history/steno.html>

<http://earthobservatory.nasa.gov/Features/Steno/steno5.php>

Determine the basic principles that Steno contributed and list them below:

Principle of _____

Principle of _____

Principle of _____

Principle of _____

Support or refute Steno's principles.

Materials available: Plastic containers, water, sediment, fake fossils

A. Using the plastic containers, water and sediment marked "A" conduct experiments to either support or refute Steno's principles. Vary the conditions of the water. Vary the conditions of the container. In each case, make detailed observations of the sediment. Make sketches (labeled) or take pictures (labeled) that illustrate these observations. Support the sketches with descriptions and explanations.

B. Pour as much water as you can outside. Return wet sediment to the container you took it from. Repeat your experiments with different sediment marked "C". Vary the conditions of the water. Vary the conditions of the container. In each case, make detailed observations of the sediment and layers. Make sketches (labeled) or take pictures (labeled) that illustrate these observations. Support the sketches with descriptions and explanations.

C. Play with the stream table (and wave maker). Record your observations of the conditions you create, the sediment, changes in the "landscape", etc. Again, make sketches (labeled) or take pictures (labeled) that illustrate these observations. Support the sketches with descriptions and explanations.