**Ocean Zones Mini-Poster**

On your paper, measure and label the meter scale on either side of the diagram from 0m at the ocean surface down to 10,000meters and the geological structures of the ocean basin (continental shelf, slope, rise and abyssal plain).

At the top of the diagram draw the surface of the ocean and structures found at the surface (like a coral reef, a ship, a sailboat).

On the bottom of the diagram draw a seamount, trench, hydrothermal vents.

**Labels and features to include on diagram:**

*Photic (sunlit) zone*

*Aphotic (no light) zone*

*Benthic realm*

*Pelagic realm*

*Bathyal zone*

*Abyssal zone*

*Hadal zone*

*Shoreline*

*Sea level*

*Littoral zone*

*Sublittoral zone*

*Abyssalpelagic zone*

*Epipelagic zone*

*Bathypelagic zone*

*Mesopelagic zone*

*Neritic zone*

*Oceanic zone*

*Sunlight zone*

*Twilight zone*

*Midnight zone*

Draw in different organisms at their appropriate depths in the ocean.

**Answer the following questions on the back of your poster:**

1. How deep can a human dive on SCUBA? Why?
2. What is the relationship between depth and pressure?
3. Identify the microbial processes that occur at depth and explore how these processes effect the carbon and nitrogen cycles.
4. How have microbes evolved and how is their evolution related to life as we now know it on earth?