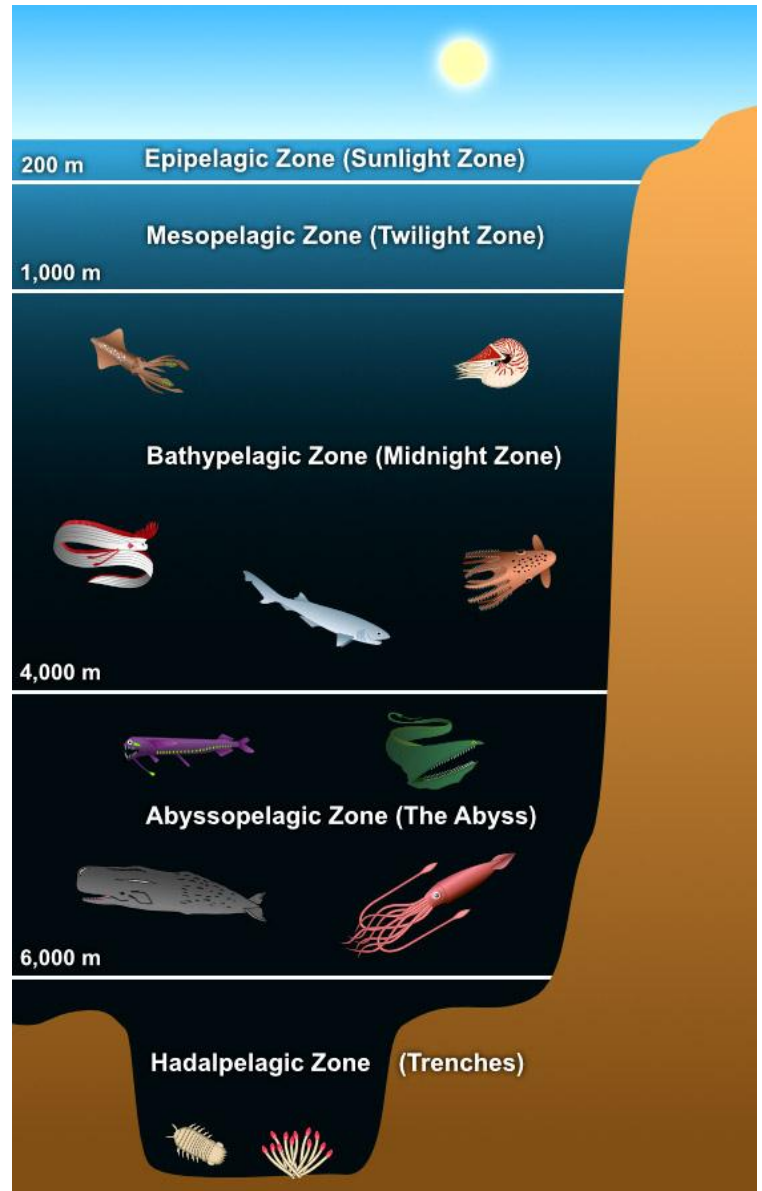




Ocean Layers Experiment

The ocean has layers just like the Earth's atmosphere! The ocean has five layers:

1. The Epipelagic zone is also known as the surface layer of the ocean. There is plenty of heat and light within this layer.
2. The Mesopelagic zone is the second layer of the ocean. Faint sun rays penetrate this layer.
3. The Bathypelagic zone is also known as the midnight or dark zone. Visible light can be observed from sea creatures living in this zone.
4. The Abyssopelagic zone is also known as the Abyss or Abyssal zone. There is no penetration of natural light in this zone and the temperature is near freezing. Over 75% of the ocean floor lies within this zone.
5. The Hadalpelagic zone is also called the Trenches. This zone cannot be easily explored by humans because of the freezing temperatures and high pressure.



Information and photo from seasky.org



Ocean Layers Experiment

Learn about the different layers of the ocean with this experiment!

Materials

- Mason jar
- Vegetable oil
- Dawn dish soap
- Light corn syrup
- Rubbing alcohol
- Black and blue food coloring
- extra cups
- spoons

Step 1

Measure $\frac{3}{4}$ cup of corn syrup and mix with black food coloring in one cup. Pour mixture into the bottom of your mason jar.

Step 2

In the second cup, measure $\frac{3}{4}$ cup of dish soap. Pour the soap in the mason jar over the corn syrup.

Step 3

In a separate cup, mix together $\frac{3}{4}$ cup of water and dark blue food coloring. Carefully pour this mixture in your mason jar on top of the dish soap.





Ocean Layers Experiment

Step 4

Measure $\frac{3}{4}$ cup of vegetable oil and pour into the bottom of your mason jar on top of the water.

Step 5

In a separate cup, mix together $\frac{3}{4}$ cup of rubbing alcohol and light blue food coloring. Carefully pour your mixture on top of the vegetable oil in the mason jar.



Step 6

Observe the difference in density of the five layers of the ocean!

