

Materials



Empty plastic bottle with cap



Water (You can add food coloring to make it fun!)



Cooking Oil



Syrup

Activity



1. Fill the bottle with equal amounts of honey and oil. Then fill the remainder of the bottle with water and then close the cap tightly
2. Turn the bottle upside down and observe what is happening between the oil, syrup, and water.

Explanation

When the bottle is moving upside down, the water will be at the bottom. Quickly, the water will settle down and the oil will go up. In a reservoir, gas will be at the top, oil will be under the gas, and water will be under the oil. This is because of the difference in density.