

Ocean in a Bottle

Objectives

- ❖ Observe that oil and water do not mix because oil is lighter, or less dense, than water.
- ❖ Observe that water is heavier, or more dense, than the oil so it sinks to the bottom.

Duration

Material	Quantity
Clear Bottle	1
Water	½ Cup
Blue Food Coloring	Few Drops
Cooking Oil	½ Cup
Glitter	Few Drops
Funnel	1

Procedure:

1. Pour water and oil into the plastic bottle, shake vigorously.
2. After shaken, ask your child what happens to the oil and water after you mix them together?
 - Observe that oil rises to the top, and the water stays at the bottom
3. To turn your experiment into an ocean display, remove the top and add enough water to fill the bottle 2/3 full.
4. Add a few drops of food coloring, glitter, and shake to mix.
5. Fill the rest of the bottle almost to the top with oil.
6. Put the top back on tightly, and gently tilt the bottle back and forth to create an ocean wave.



Source: ladybehindthecurtain