

# Grade 3

## Week 3

### MAKE YOUR OWN OCEAN

#### **MATERIALS:**

- 1 clear plastic bottle (such as a water bottle)
- vegetable oil
- water
- blue food coloring

#### **PROCEDURE:**

1. Fill the bottle half full with water.
2. Add several drops of blue food coloring.
3. Mix well.
4. Fill the remainder of the bottle with vegetable oil. (Do not leave room at the top of the bottle for air.)
5. Screw cap on tight.
6. Hold the bottle on its side and gently roll it back and forth.
7. Record your observations.
8. Shake the bottle.
9. Record your observations.

#### **QUESTIONS:**

1. What happened to the blue water when you rolled the bottle back and forth?
2. Did the oil and water mix?
3. Where did the water go in the bottle? The oil?
4. What does this experiment prove?

Why it works: Liquids, like solids, have different densities. The oil floats on the water because water is heavier or more dense than oil.