

## Oil & Water



### Equipment Required:

Vegetable Cooking Oil

Empty Plastic Bottle with lid

Tap Water

Washing Up Liquid

### What to do

1. Half fill the bottle with tap water.
2. Add a little cooking oil to form a thin layer on top of the water.
3. Tighten lid so contents cannot leak.
4. Shake bottle to mix oil and water and watch carefully when you stop shaking.
5. Repeat a few times and time how long it takes the layers to settle into two different layers.
6. Remove the lid and add a few drops of washing liquid.
7. Reseal the bottle and shake the same number of times.
8. Look to see if the layers separate again.

### Extra Activity:

1. Collect a mixing bowl from the kitchen (plastic, glass, etc)
2. Fill bowl halfway with water
3. Add a small volume of vegetable oil on top of the water
4. Drip washing up liquid into the bowl and watch the oil move back.

Video Demonstration: [https://youtu.be/cdL74U\\_Y9cA](https://youtu.be/cdL74U_Y9cA)