Oil and Water

"They are like oil and water!" That's how we describe two people who don't get along. Well, how do oil and water get along? 

**What to do:** Pour 2 tablespoons of oil and 2 tablespoons of colored water into the jar or soda bottle. Cover and shake it hard. Now put it down.

**What happens:** Although the oil and water seem to mix when you shake the container, they separate when you put it down. The oil floats on top.

**Why:** Many liquids dissolve in water to form a solution, but water and oil do not mix. The oil molecules have a greater attraction for each other than for the molecules of the water. Oil floats on top of the water because it weighs less.

That's why it is so easy to remove the fat from chicken soup and from beef gravy. When these liquids stand for a while, and especially after they have cooled, the fats form a solid layer on top of the other liquids.