

# Milk Experiment

## WHAT'S HAPPENING?

Milk contains tiny droplets of fat, and when the soap meets the fat, a **chemical reaction** takes place! The soap **molecules** race around to join up with the fat **molecules**.

While this is happening, the food colouring **molecules** are bumped and shoved everywhere which makes it easier for us to see what's happening with the soap and fat.



### Vocabulary

**Chemical reaction:** when a substance (a material or liquid in this instance) is changed into a different substance.

**Molecules:** a particle

**Now, in your own words, can you explain what is happening to the sweets to someone in your family?**

### Extension ideas:

- Can you time how long it takes for the movement to stop?
- Which colours could you mix together to make new colours?

### Questions to ask and think about:

- What would happen if you add more soap? Why do you think this is?
- Will the colours ever stop moving? Why/why not?

