

### Big Idea

# Chemical Reactions



### Materials & Equipment

- Whole or 2% milk (enough to cover the bottom of the dish)
- Food colouring (as many colours as you want)
- Dish soap
- Shallow dish or bowl
- 1 cotton swab or 1 toothpick



### Procedure

1. Pour enough milk into the dish to cover the bottom.
2. Add 2-3 drops of each food colouring colour on to the milk. Use as many colours as you would like.
3. Dip the tip of the cotton swab in dish soap
4. Carefully touch the food colouring (without stirring the milk). Keep touching various spots of colour
5. Watch the colour dance across the surface of the milk.

### What Happened?

The dish soap causes the fat and the water in the milk to separate and spread apart.

When you see the colours dance across the milk this is what is happening.

The higher the fat content of the milk the more the separation will be.

