

# Water Molecules on the Move

This experiment is great for testing if hot water molecules really move faster than cold ones. Pour some water, drop in some food coloring and compare results.

## YOU WILL NEED:

1. A clear glass filled with hot water
2. A clear glass filled with cold water
3. Food colouring
4. An eye dropper

## INSTRUCTIONS:

1. Fill the glasses with the same amount of water, one cold and one hot.
2. Put one drop of food colouring into both glasses as quickly as possible.
3. Watch what happens to the food colouring.

## WHAT'S HAPPENING?

If you watch closely you will notice that the food colouring spreads faster through the hot water than in the cold. The molecules in the hot water move at a faster rate, spreading the food colouring faster than the cold water molecules, which move slower.

