

# HOT 'N' COLD

ASK FOR HELP!

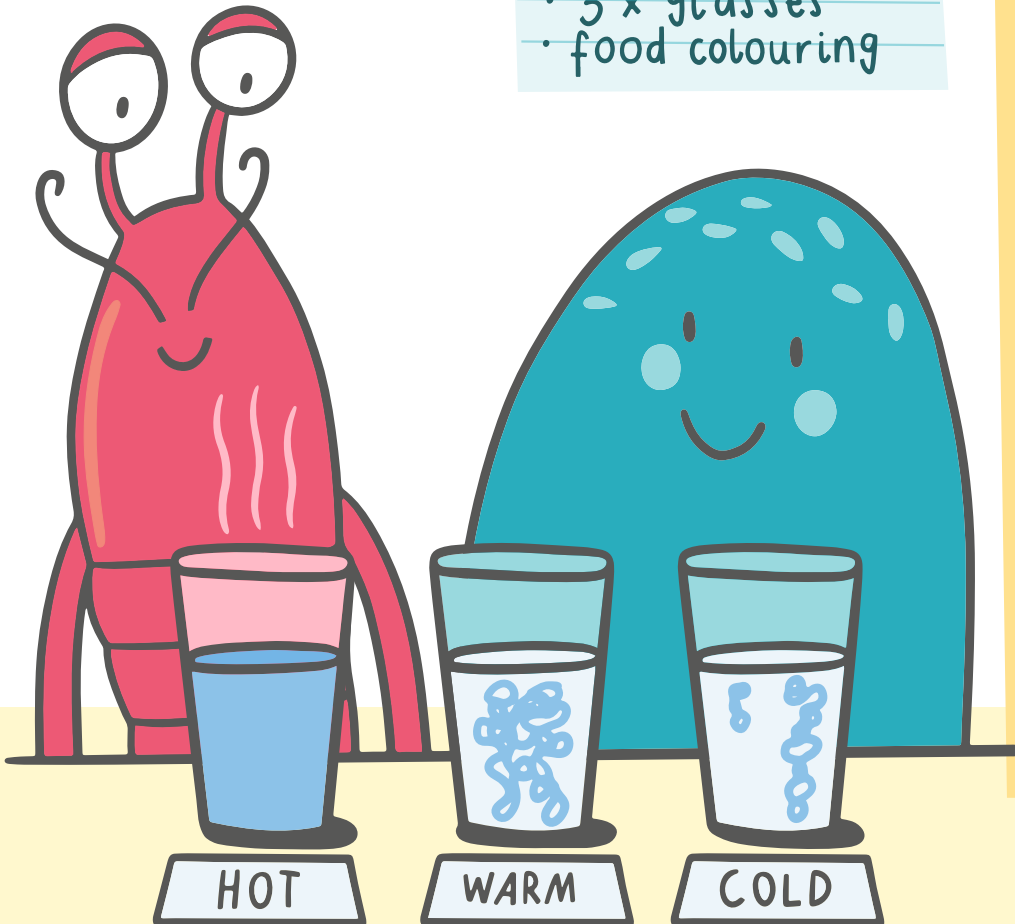
You'll need a grown-up to help you with this experiment – it uses very hot water!



Squidge & Snap reveal the magical self-stirring properties of hot water!

you'll need:

- 3 x glasses
- food colouring



## How it's done

1



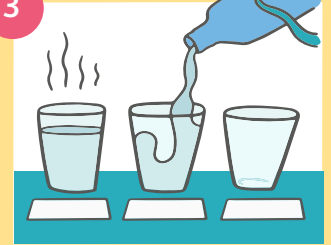
Find three glasses and label 'hot', 'warm' and 'cold'

2



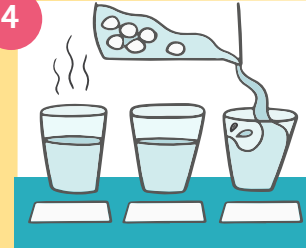
Ask your grown up to carefully fill one with very hot water...

3



one with room temperature water...

4



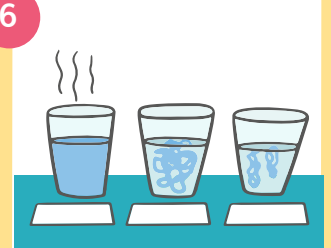
and one with ice-cold water

5



Add three drops of food colouring to each glass. Don't stir!

6



Watch what happens at first, then come back after 20 mins and see if anything has changed

## How it works

In the hot glass, the molecules are moving and dancing all over the place so the food colouring joins in! This is because when we boil water, energy is transferred into it. Just think, when you dance, you're full of energy too! In the cold glass, the molecules are really still because they have no energy. So the self-stirring properties of hot water is the result of energy!

NICE!