

# Travelling Colours

You will need:



water



white kitchen roll



six beakers or cups



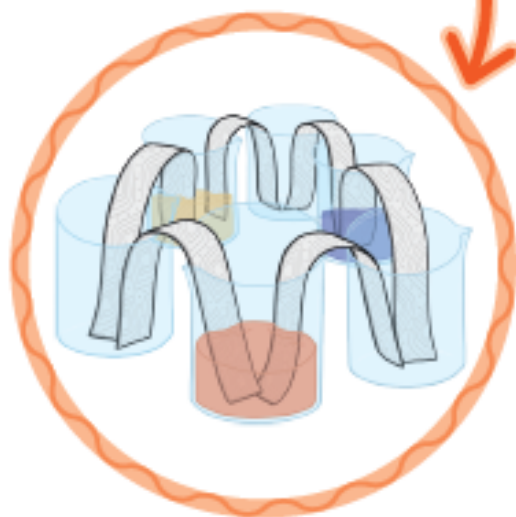
food colouring - red,  
yellow and blue

## Method

1. Take three beakers and put a different colour of food colouring into each one.
2. Then, add water into each cup with the food colouring. You may find it needs stirring to ensure it is well combined.
3. Using 1-2 sheets of kitchen roll, roll lengthwise into a tube shape.
4. Bend in half and place one end in one beaker and then the other into an empty beaker.
5. Repeat step four so you end up with something which looks like this.
6. Observe what happens.

## The Science

Water moves up the kitchen roll because it is absorbent. If a material is absorbent, it means that it can soak up liquid. The kitchen roll soaks up the water when it connects to it. As the water has been mixed with the food colouring, when the colours connect, they mix together.



# Travelling Colours

What colours can you see?

What new colours have been made?

What can you see happening to the colours?

Where is the water going?

What is the kitchen roll doing?

What has happened to the amount of water in the beaker?

Do you think you could use a different liquid?

Can you think of any other materials that absorb water?

**You will need:**

## Escape the Ice

water (for freezing)



small container,  
such as a  
yoghurt pot



small toy  
figure

freezer



tray or plate

items to try to melt the ice with, e.g. materials,  
salt, baking powder, sugar, warm water

### Method

1. Put your toy into the pot.
2. Fill the pot with water, leaving a little bit of space at the top. Make sure the water is completely covering the toy.
3. Place the pot into the freezer until completely frozen.
4. Take the pot out of the freezer. Remove the ice block and place it on a plate.
5. Now you need to decide how you will get the toy out of the ice! Think about what you could use on the ice or where you could put it, to melt the ice and free the toy.



### The Science

When water is cooled down to 0 degrees Celsius, it changes to ice. This is known as the freezing point. The process of liquid water changing to solid ice is called freezing.

When the temperature is higher than 0 degrees celsius, the ice will turn back into water. This process is called melting.

Some substances like salt can lower the freezing point, making the ice melt.

# Escape the Ice

What do you think will happen to the water in the freezer?

Will freezing also change the toy figure or container?

What is the difference between ice and water?

How will you get the toy out of the ice?

How could you make the ice melt faster?

How could you keep it frozen for longer?