

COLOUR MIXING FIREWORK!

Make your own colour mixing firework and learn more about how fireworks are formed!



MATERIALS NEEDED:



Water



Oil



Spoon



Food
Colouring



2 Cups



Dropper

INSTRUCTIONS:

Step 1



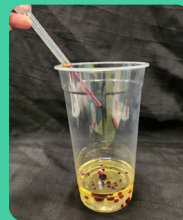
Pour water into one cup.

Step 2



Pour oil into 1/8th of another cup.

Step 3



Add 2 drops each of red and yellow food colouring into the cup with oil using the dropper.

Step 4



Stir the mixture with a spoon.

Step 5



Pour the mixture into the glass of water.

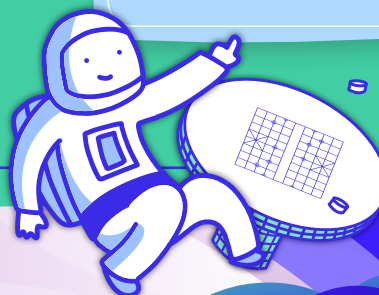
Step 6



Watch what happens!

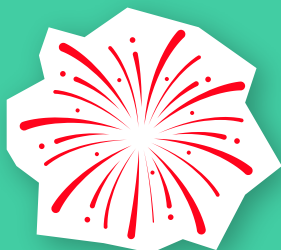
WHAT HAPPENED?

Oil floats on water because it is lighter or less dense. Food coloring is heavier or more dense than both oil and water, so it sinks through the oil. When it reaches the water, it starts to mix in and spreads the colours out like fireworks!



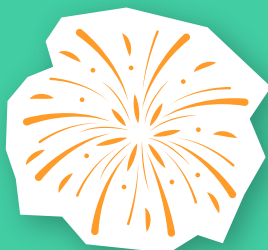
CHEMISTRY OF FIREWORKS

Check out what these colours of fireworks are made of!



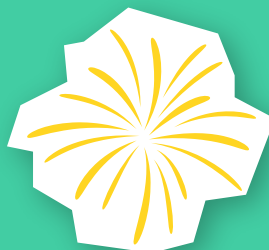
Red

Strontium Salts



Orange

Calcium Salts



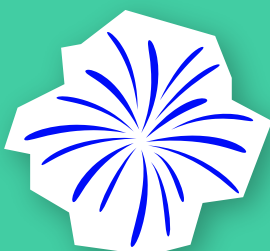
Yellow

Sodium Salts



Green

Barium Salts



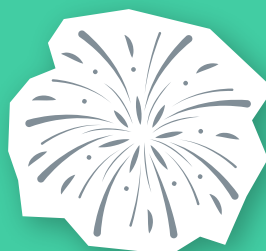
Blue

Copper Salts



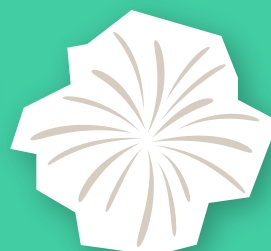
Purple

Combine Strontium
and
Copper Compounds



Grey

Strontium Salts
and
Aluminum



White

Burning Metal

DID YOU KNOW?

Firework colours come from pyrotechnic 'stars'—pellets that produce light when burned. These contain metal salts for colour, fuel for burning, an oxidiser for combustion, a chlorine donor to enhance colours, and a binder to hold the mixture together.

