



Hidden Pattern

Stem Activities



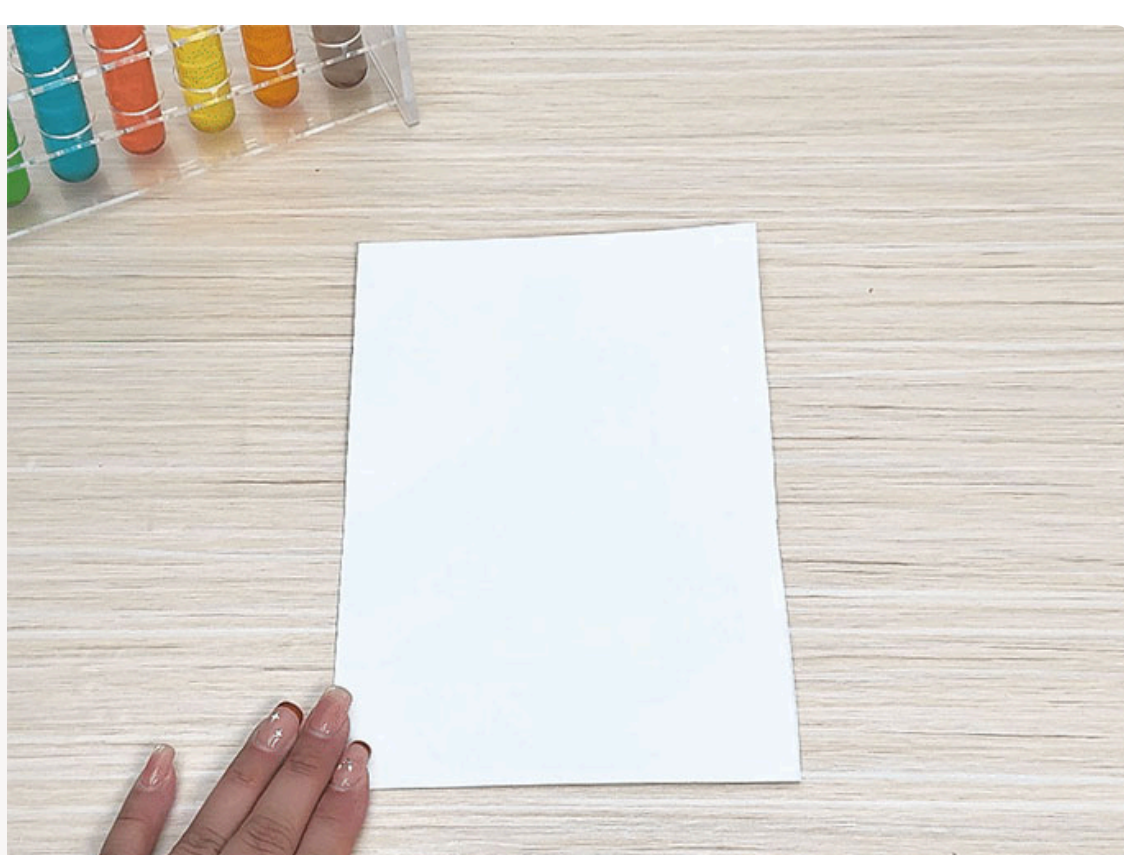
Ages: 6-8



Less than 30 minutes



Grownup needed



It's not magic, it's science! Explore the fascinating world of oxidation-reduction reactions through this entertaining experiment.

Materials Needed

Iodine solution
Vitamin C tablets
Paintbrush
Card paper
A glass of water
Brush
Spoon



Step-by-step tutorial

Step 1

Crush the vitamin C tablet using a spoon.



Step 2

Pour the crushed vitamin C into the water and stir until dissolved.



Step 3

Using a paintbrush, dip it in the vitamin C solution. Write or draw your desired pattern on the card paper and wait patiently for it to dry.



Step 4

Dip the brush in iodine solution and brush it over the dried card paper - watch the magic happen!



The Science Behind It:

Paper contains starch which turns purple-blue when it comes into contact with iodine solution. However, vitamin C has reducing properties, so the areas where you drew with the vitamin C solution won't change colour, resulting in the white pattern you see.