



Invisible Ink with Lemon Juice

Making invisible ink is a lot of fun! You can pretend you are a secret agent and keep all your secret codes and messages hidden from others. All you need is some basic household objects and the hidden power of lemon juice.

YOU WILL NEED:

1. Half a lemon
2. Water
3. Spoon
4. Bowl
5. Cotton bud
6. White paper
7. Lamp or other light bulb



INSTRUCTIONS:

1. Squeeze some lemon juice into the bowl and add a few drops of water.
2. Mix the water and lemon juice with the spoon.
3. Dip the cotton bud into the mixture and write a message onto the white paper.
4. Wait for the juice to dry so it becomes completely invisible.
5. When you are ready to read your secret message or show it to someone else, heat the paper by holding it close to a light bulb.

WHAT'S HAPPENING?

Lemon juice is an organic substance that oxidizes and turns brown when heated. Diluting the lemon juice in water makes it very hard to notice when you apply it the paper, no one will be aware of its presence until it is heated and the secret message is revealed.

Other organic substances can work in the same way, such as orange juice, honey, milk, onion juice, vinegar and wine. Invisible ink can also be made using chemical reactions or by viewing certain liquids under ultraviolet (UV) light.