

# PEPPER AND SOAP



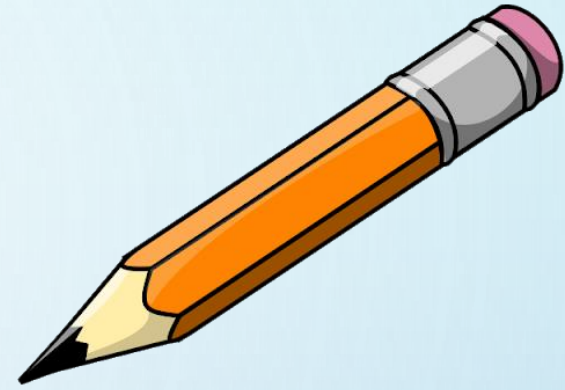


Monday 22<sup>nd</sup> June 2020 – I can explain how soap makes our hands clean.

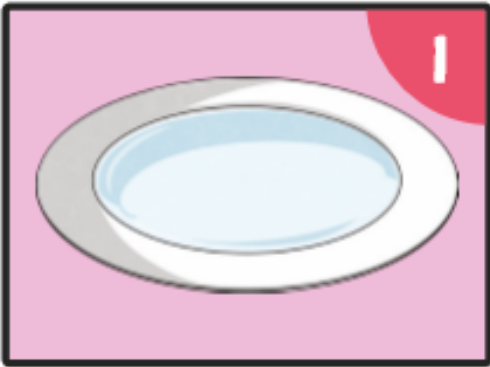
Why do we need to wash our hands with soap?

## Equipment

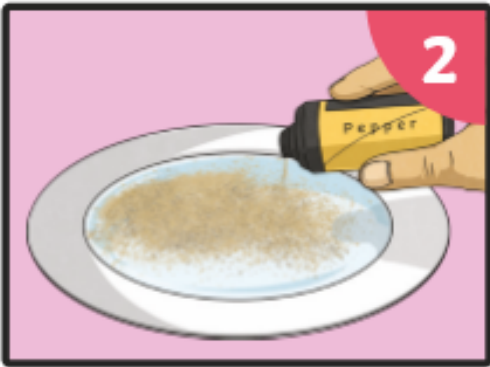
- Pepper
- Soap
- Water
- Plate



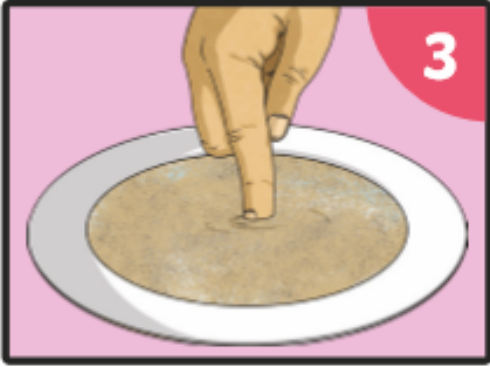
# Method



Fill the bowl with water, but not all the way to the top.



Sprinkle some black pepper on to the surface of the water. You should see the black pepper floating.



**Test 1:** Dip your finger into the centre of the bowl of water. Watch what happens to the pepper and record this.

## Test 1 - Prediction



**Test 1:** What I predict will happen when I put my finger into the bowl the first time.

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# Test 1 - Results

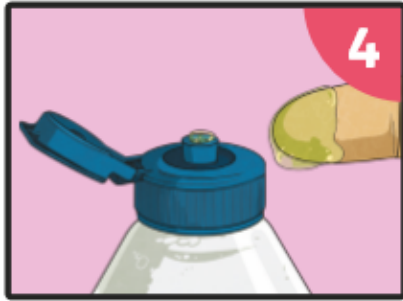


What actually happened?

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You may wish to draw a picture or add a photograph.

# Method



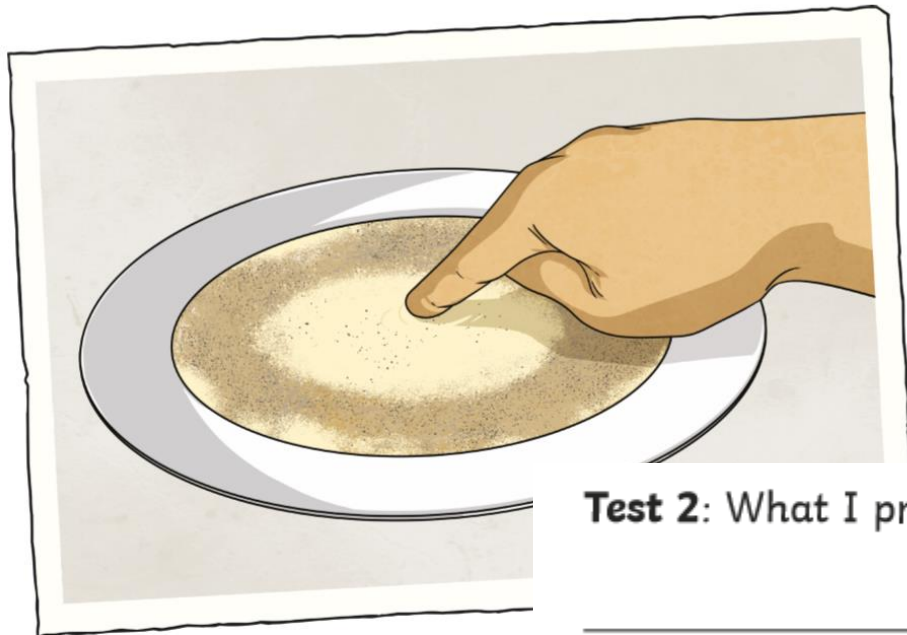
Dry your hand, then dip your finger into the liquid hand soap.



**Test 2:** Dip your soapy finger in to the centre of the bowl of water. Watch what happens to the pepper and record this.

## Top Tip

Use a camera to take photos to record what happens to the pepper each time you put your finger into the bowl.



**Test 2:** What I predict will happen when I put soap on my finger and put it into the bowl.

What actually happened?



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You may wish to draw a picture or add a photograph.



# Question



Why do you think the pepper behaves like that?

Write down your ideas

## Facts



Our skin naturally has oil on it which allows dirt and germs to stay on our hands if we only rinse with water.

Soap is a surfactant which is a substance that helps oil and water mix.

When we use soap, the surface tension of the water is reduced and the oil on our hands is rinsed away along with dirt and germs.

## Conclusion



In your own words write down and explain why it is important to use soap when washing our hands and how you now know!