Horrid Hands Why do we use soap to wash our hands?

To find this out, you will need:

Ingredients

- 1 Bowl (a cereal bowl will be fine)
- Some water
- A sprinkle of black pepper or other spice
- Some hand soap or washing up liquid
- A Pen
- A Notebook
- A Camera (optional)



Method

1. Fill the bowl with water, but not right to the top.



- 2. Sprinkle some black pepper or spice onto the surface of the water. It should float on top.
- 3. Dip your finger into the centre of the water and watch what happens to the pepper. Take a photo to record what has happened.
- 4. Dry your hand, and then dip your finger into the soap.
- 5. Dip your soapy finger into the water. Watch what happens to the pepper. Take a photo to record what has happened.



Now answer this question:

What happened with and without the soap?



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From your results, can you answer the question: "Why do we use soap to wash our hands?"

Explanation

The experiment with and without soap should have been different. When the soap was on your finger the pepper should have moved towards the edges of the bowl. This is because the soap removes the oils on your hands and the oil pushes the pepper towards the edge of the bowl.

Microbes like to stick to the oils on your hands, which is why we wash our hands with soap. Without soap, the oils are not removed, and microbes find it easier to stick!