

Keeping Clean

Wk beg 13.07.20



Aim

- I know how and why I should wash my hands thoroughly
- I can look closely and record what I see.

Success Criteria

- I can give at least one reason why humans should wash their hands.
- I can record what I see.

Handwashing

Last week we talked about why it is really important that we keep clean and one thing that we need to do regularly throughout the day especially because of the current Corona-virus Pandemic is wash our hands.



Glitter Bug Activity

If you had some glitter at home I hope you enjoyed the Glitter Bug activity. This activity was a great way to understand that the best way to clean our hands is to use soap and hot water.

This week I have planned another activity which will help us to understand about germs and I am sure you will be amazed by the results!

Glitter Bugs Record

I can observe closely and record what I see.

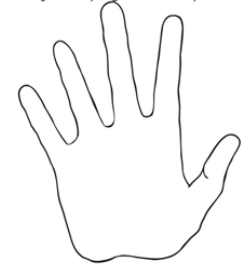


Examine your hand carefully with a magnifying glass. Draw what you see.

Hand Before Cleaning



Hand After Wiping With a Paper Towel



Hand After Washing in Cold Water



Hand After Washing in Warm Water with Soap



Soap and Pepper Experiment

Learning objectives

- Microbes can 'stick' to the natural oils on our hands making them hard to remove with water alone
- Soap removes the oil on our hands and helps wash microbes away

Equipment

- Shallow bowls or dishes
- Access to fresh water and soap
- Ground pepper or other spice such as cinnamon
- Cocktail sticks (or use your finger)



Follow the instructions on the following slides and watch a video of the experiment by clicking on the following link:

<https://youtu.be/b-8-hCLqtKQ>

Soap and Pepper Experiment



Step 1

Cover the bottom of your shallow dish with water.



Step 2

Sprinkle black pepper across the surface of the water. Note how the surface tension of the water causes the pepper flakes float.



Step 3

Stick your finger in the center of the dish; did anything happen? Not much right? You probably just got some pepper flakes stuck to your finger. Now imagine that the pepper flakes are germs.



Step 4

Now dip the tip of your finger into the liquid dish soap—you don't need much.



Step 5

Now stick that finger into the center of the dish. What happens? Your soapy finger chased those pepper flakes to the edges of the plate! Dish soap is formulated to break the surface tension of water, which is why it is so effective on greasy, dirty dishes. And it wasn't until you added soap to the bowl that those "germs" were chased away. This is the reason grown-ups are always nagging you to wash your hands with soap!

Remind the children that the surface of the water represents their hands and That the pepper represents germs (microbes) that need to be washed away.

As we learnt last week nothing happens to the microbes using water alone to wash your hands it only moves the microbes around.

Using soap when you wash your hands is important because it breaks the oils on the surface of your hands that microbes stick to and then they can be rinsed away under running water.



Discuss that when the soap was added to the bowl 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 should wash our hands with soap.



Soap and Pepper Experiment

Record your experiment using the worksheet I have provided in your pack.

Soap and Pepper Experiment

What do you want to find out?

What equipment will you need?

What are you going to do?

What do you think will happen?

What will you keep the same?

What will you change?

Conclusion

What have you found out?

Word bank

germs	microbes	experiment	investigate	surface
test	fair	soap	water	results
stick	hands	wash	pepper	disperse

Draw your results

Water and pepper without soap Water and pepper with soap

