

Experiment Details for Session 4: **SWEET SALTY 'n SPICY!**

Reminder: All experiments recreated at home should be done under the supervision of a parent or guardian to ensure the safety of the child. No experiments listed should cause any harm!

Dancing Pepper

Materials:

1. Grinded black pepper
2. A white plate (any plate works but white plate is recommended so you can see the dancing pepper better!)
3. Water
4. Dish soap

Procedures:

1. Pour some water onto the plate.
2. Sprinkle grinded black pepper all over the water
3. Dip your finger tip in and see what happens (As you can see, nothing happens here!)
4. Now put some dish soap on your fingertip
5. Dip your finger tip into the water again

What do you see?

Balloon Blow Up

Materials:

1. A bottle of soda (1.5 liter was used in the demonstration)
2. Balloons
3. Salt/Sugar (Or both!)
4. A Funnel (recommended)

Procedure:

1. Stretch the balloon a few times to make it easier to inflate
2. Using the funnel, pour in about 3 spoons of salt into the balloon, but you can use more or less depending on how much you want your balloon to blow up
3. Open the soda bottle and carefully stretch the balloon onto the bottle opening all the way (Be sure to not let any of the salt spill into the bottle!)
4. Once the balloon is secure onto the bottle opening, lift the balloon to pour the salt into the soda
5. Watch your balloon blown up!
6. Repeat these same steps with sugar using the same or different type of soda (if you would like!)

Salty Ice

Materials:

1. A glass/bowl/plate
2. Ice cubes (as many as you want)
3. String (remember to cut the string longer if you have more ice cubes!)
4. Salt
5. Water

Procedure:

1. Take the ice cubes and place them on your bowl/plate or in your glass
2. Pour a bit of water onto the cubes
3. Wet your string and touch the ice with it. Does anything happen?
4. Take the salt and add it onto where the string and ice meet
5. Wait at least one minute!
6. Now, try and pull at the string. What happened?
7. Repeat this experiment as many times as you want with as many ice cubes as you want!