

Experiment Details for Session 2: **WATER**

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

Upside Down Water Glass

Materials:

1. A glass
2. An index or poster card
3. Water
4. An area where the water can spill without making a mess such as a sink, container, or even outside

Procedure:

1. Fill a glass with water (around $\frac{3}{4}$ or completely full is fine)
2. Place an index card over the top of the glass
3. Carefully flip the glass over while holding on to the index card
4. Take the hand that's holding the index card at the bottom of the glass away (Now remember, if you are doing this experiment at home, make sure to do it outside or over a sink!)

Balloon in Hot and Cold Water

Materials:

1. A deflated balloon
2. Two containers
3. Ice and cold water
4. Boiled water **remember to have a parent!

Procedure:

1. Fill one container with mostly ice and cold water
2. Fill another container with hot boiled water (please make sure your parent/guardian is boiling and pouring the water)
3. Stretch out the balloon and place it over the top of the water bottle
4. Place the bottle in the container with boiled water. What do you see?
5. Then, place the bottle in the container with ice and cold water. What do you see?

Water Cycle Demonstration

Materials:

1. Glass or jar
2. Water
3. Shaving cream
4. Food coloring (preferably blue)

Procedure:

1. Pour the water into a glass or a jar about 80%.
2. Add a layer of shaving cream, but don't make it too thick
3. Now add a few drops of food colorings to the shaving cream.
4. Watch the food colorings fall down like rain!

Invisible Ink Experiment

Materials:

1. Water
2. 100% Grape Juice
3. Baking Soda
4. Q-tip/skewer/toothpick (anything you can write with using your invisible ink)
5. Paper
6. Cotton ball or Paper Towel

Procedure:

1. Make your invisible ink mixture by pouring some water in a plate or bowl
2. Add in baking soda (you don't need too much, just enough for it to mix in almost all the way!) You should use around one spoon of baking soda for every spoon of water!
3. Take your Q-tip and write your secret message!
4. Pour some grape juice into a plate or bowl (Just a little bit is enough! Don't pour too much or you won't have any leftover to drink at home!)
5. Take your cotton ball or paper towel and dip it into the grape juice.
6. Rub it onto the paper to see your secret message be revealed!

Have fun!