

Experiment Details for Session 2: **SCIENCEZOOMZ** Summer 2021

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!

Rainbow Capillary Action

Materials:

- 3 Cups (you can use more if you want)
- Paper towels
- Food coloring
- Water

Procedure:

1. Place three cups in alignment and fill the cups in the end with equal amounts of water
2. Then add the color of your choice to each cup (make sure they are different)
3. After, grab two paper towels and pin fold them into a rectangle shape
4. Place one end of the paper towel in the filled glass and the other in the empty
5. Finally, observe the empty glass fill up → capillary action!

Tip: Use different food colorings to see a color change in the empty cup

Pencil Through Ziploc Bag

Materials:

- Ziplock Bag
- Sharp Pencils
- Water

Procedure:

1. Fill a ziploc bag approximately halfway with water (room temperature is good)
2. Tightly seal the ziploc bag squeezing any excess air out as you do so
3. Quickly poke a sharp pencil through the ziploc bag where the water is filled
4. Observe if there is any leaking and ask yourself why or why not?!
5. Carefully try to poke any other simple utensils or more pencils through the bag! Is there leaking? How many are you able to do?

Tip: Poke the sharp pencil through quickly and make sure there are no additional holes anywhere else in the bag!

Bouncy Egg

Materials:

- 1 cup
- 1 raw egg
- Vinegar
- Food coloring (optional)

Procedure:

1. Carefully place a raw egg into a cup or a glass
2. With the help of an adult, pour vinegar into the cup completely covering the egg
3. Leave the egg inside (room temperature) for 24-48 hours
4. Remove the egg from the cup after you observe a color change
5. If the egg feels soft, rinse it under water
6. Finally, try bouncing the egg on a cup or hard surface

Caution: The egg can still break if dropped with high force/distance!