

Experiment Details for Session 3: **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!

Levitating Ping Pong Ball

Materials:

1. Ping Pong Ball(s)
2. Hair Dryer
3. Toilet Paper Roll (optional)

Procedure:

1. Take a hair dryer and point it upwards towards the ceiling.
2. Turn it on to medium/high speed
3. Place the ping pong ball in the blowing air from the hair dryer and watch what happens!
4. See if you can carefully place another ping pong ball in the blowing air
5. See if you can slowly move and tilt the hair dryer around. Will the Ping Pong ball keep levitating?
6. Take a toilet paper roll and hold it above the levitating ping pong ball letting it go through.
7. Observe what happens!

Egg in a Bottle

Materials:

1. Glass bottle with opening slightly smaller than the hardboiled egg
2. 1 peeled hard-boiled egg
3. Piece of Paper
4. Match
5. Adult supervision

Procedure:

1. Place the glass bottle on the table.
2. Place the egg in the bottle opening to show that the egg cannot be pushed in.
3. Have an adult light a piece of paper on fire using the match
4. Quickly and carefully drop the lit piece of paper into the bottle.
5. Place the hard-boiled egg on the bottle opening
6. Watch what happens!

Upside Down Water Glass

Materials:

1. A glass

2. Thick piece of paper/cardboard
3. Water
4. Sink or tray

Procedure:

1. Fill a glass with water (around $\frac{1}{2}$ or $\frac{3}{4}$ full is fine)
2. Place a cardboard (or a thick piece of paper) over the top of the glass
3. Carefully flip the glass over while holding onto the cardboard
4. Remove the hand that's holding the cardboard piece at the bottom of the glass away (If you are doing this experiment at home, make sure to do it outside or over a sink!)

Have fun!