

Experiment Details for Session 1: **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!

Make Your Own Fossil

Materials:

1. Modeling Clay
2. Plaster of Paris Powder
3. Water
4. Toy dinosaur/animal of your choice

Procedure:

1. Roll out a ball of clay into an oval that is about half an inch thick
2. Press the toy dinosaur or any other animal of choice into the clay
3. Carefully remove the toy leaving a clear imprint in the clay
4. Press the edges of the clay upwards making a short mold around the imprint
5. Ask an adult to mix water with the plaster of paris (follow the directions given on the package) - mine was a 1 to 2, water to plaster ratio
6. Pour the plaster into the mold filling it completely
7. Wait an hour or two to make sure the plaster is dry (follow directions on package)
8. Gently remove the clay
9. Optional: Add some brown coloring to the "fossil" to give it a more realistic look - you can use the modeling clay and water to stain it!

Egg Drop

Materials:

1. Paper Plate
2. Cup of Water
3. Egg (can be boiled) or can use a ball
4. Toilet Paper Roll

Procedure:

1. Fill the cup approximately halfway with water
2. Place the plate on top of the cup
3. Stack the toilet paper roll on top of the plate and make sure it is centered
4. Balance the egg on top of the toilet paper tube
5. Use the palm of your hand to quickly knock the plate away
6. Watch what happens!

Tip: Don't hit the toilet paper roll or cup

Dancing Foam Balls/Sprinkles

Materials:

1. Large Glass Bowl
2. Clear Plastic Wrap
3. Styrofoam balls (sprinkles, salt, or rice may also be used)
4. Speaker

Procedure:

1. Cover the bowl with the plastic wrap making sure it's tight
2. If necessary use a rubber band to hold the plastic wrap in place
3. Place the bowl very close to the speaker
4. Place a handful of styrofoam balls (or anything else being used) onto the plastic wrap
5. Play some loud music (songs with a strong bass work well!) and observe

Tip: If it is not working make sure the plastic wrap is very tight, the speaker is very loud, and the bowl is close to it. You can also try playing different songs with different beats.

Have fun!