

Materials List for Science Superheroes

Hosted by the GCM Medical Science Club - 2020-2021

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* = Parental Notes

Session 1 (COVID-19 I) Dec. 14th

Overview Video

- ★ Materials
 - [Video](#)
 - *Parents may watch the video ahead of time!*

Coronavirus Structure

- ★ Materials
 - Coronavirus coloring diagram linked [here](#)
 - *Will be emailed as a PDF a week prior and linked as a PDF here! We recommend printing out this document as well.*
 - Colored pencils (at least 6 different colors)

The Sneeze Travel Activity

- ★ Materials
 - Food coloring
 - Water
 - Spray bottle
 - Tissue paper

Session 2 (COVID-19 II) Jan. 11th

Diagram Anatomy

★ Materials

- Pencils, pens, markers, color pencils, erasers, and highlighters
- A diagram of an unlabeled human body that we will provide. See [here](#) for the diagram.
 - *Will be emailed as a PDF a week prior and linked as a PDF here! We recommend printing out this document as well.*
- Parents can help their kids print this diagram prior to this COVID-19 session

Washing Hands

★ Materials

- Crushed black pepper - represent the COVID-19 “germs”
- Water - represent the surface of your hand
- Liquid hand soap - what you use to wash your hands
- Bowl to put water in

Safety Measures Kahoot

★ Materials

- Student device to play a COVID-19 safety measures Kahoot game that we will create.
 - *Questions will be sent out to all parents prior to the session and will be approved by the administration.*

Session 3 (Environment I) Jan. 25th

Oil Spill Clean Up

★ Materials

- Water
- Blue food coloring- to make the water stand out a bit from the clear container
- Vegetable Oil
- Cocoa Powder (or any colored powder substance!)
- Deep Clear Container
- Cotton Balls
- Sponge
- Spoon
- Paper Towels
- *Optional - Plastic Mini Boat*
- *Optional - Plastic Ocean Animals*
- *Optional - Small Rocks/ Stones*
- *Optional- Dawn Dish Soap*

How Clouds Make Rain

★ Materials

- A jar of water
- Blue food colouring
- Shaving foam
- A medicine dropper or pipette (just a way to drop the food coloring, could be straight from the bottle too)

Erosion

★ Materials

- Aluminum pan / any rectangle shaped container
- Sand or dirt whichever is more accessible
- Ruler
- Tape
- Styrofoam / plastic cup Water
- [Worksheet](#)

- *Will be emailed as a PDF a week prior and linked as a PDF here! We recommend printing out this document as well.*

★ Procedure NOTE

- *With parent support, make sure to cut a small hole at the bottom of your cup before the session begins. The hole should be big enough so that water can slowly drip out of it.*

Session 4 (Environment II) Feb. 8th

Filtering Water

★ Materials

- 2 Glass Jars
- Sand
- Gravel
- 3-4 Coffee Filters
- Dirty Water (could find some or mix dirt with water)
- A Plastic Cup

★ Procedure NOTE

- *With parent support, make sure to cut a small hole at the bottom of your cup before the session begins. The hole should be big enough so that water can slowly drip out of it.*

Flower Dissection

★ Materials

- Flowers x 4 (try to find 4 different types of flowers)
- Paper - lined is best
- Something to write with
- Optional - colored pencils or crayons
- Scissors
- [PDF](#)

- *Will be emailed as a PDF a week prior and linked as a PDF here! We recommend printing out this document as well.*

★ Procedure NOTE

- *During the project, one step will require parental support: cut off the end of stem with scissors and look at the inside.*

NO THRID EXPERIMENT

Session 5 (Physics) Feb. 22nd

Gravity

★ Materials

- Two different weighted balls (be creative!)

Wingless Airplanes

★ Materials

- Sturdy paper like construction paper, card stock, or a thin folder
- Paper or plastic straws
- Scissors
 - *A parent must be using the scissors to cut the appropriate amount of paper for the student. Prepare this beforehand. You will need to cut a strip of paper 1-inch wide and 10-inches long and another strip of paper 1-inch wide and 5-inches long.*
- Tape

Kinetic Sculptures

★ Materials

- Ruler
- Penny or metal washer
- Tape
- Different objects to add to your sculpture, such as forks, spoons, pencils, crayons, clothespins, small toys, paper clips, buttons, shapes cut from paper or cardboard, metal washers, hex nuts, or bolts
- Materials to connect your sculpture objects together, such as pipe cleaners, rubber bands, yarn, string, twist ties or thin wire
- Scissors (to cut the yarn or paper)
 - *If you are planning on using paper or yarn for your kinetic sculptures, a parent must be using the scissors to cut the appropriate amount of material for the student. Prepare this beforehand.*

Session 6 (Water Properties) Mar. 8th

Surface Tension

★ Materials

- Water
- Paperclip
- Dish soap
- Penny

Water Cycle in a Bag

★ Materials

- A ziplock plastic bag (2 Gallon bag)
- Color markers (e.g. Sharpie Permanent Markers or any non-erasable markers)
- Water
- Blue food coloring (optional)
- Packing tape

Density

★ Materials

- Sugar
- Water
- Food coloring
- Tablespoon
- 5 glasses or clear plastic cups