

STEM



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1st Annual GIRLS RALLY!



Join us Saturday, August 4th, from 8-11 am to learn more about STEM while having fun too! There will be an introduction with a few guest speakers while the girls get to enjoy some yummy snacks! This will be followed by a few fun, easy experiments for the kiddos to interact with. We will then conclude with a few closing remarks. The option of a kickaround will be available after closing remarks.

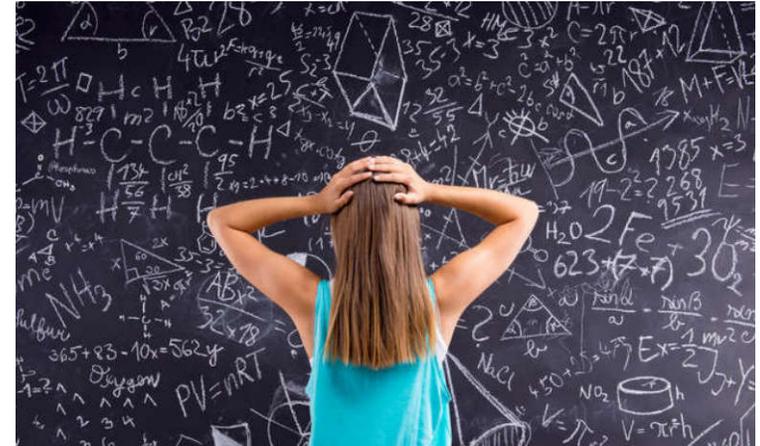
Itinerary of Activities

8:00 am – Introduction from a few guest speakers about their career path.
Learn what STEM means.

9:00 am – Hands on activities with different types of experiments. Girls will have the chance to interact with our volunteers and ask any questions they may have!

10:30 am – Closing remarks with time for girls to ask any other questions they may have.

11:00 am – Girls are free to leave, but there will be the option of a soccer kickaround until 12:00 pm.



We Can Do It!



science

technology

Activities!!!

engineering

mathematics



Building Bucket Tower

Supplies:

Tape, string, straws, 1 small Dixie cup, pennies, scissors, hole punch

Objective: Use critical thinking skills and problem solving skills to engineer a platform to withstand the weight of a bucket containing as many pennies as possible.

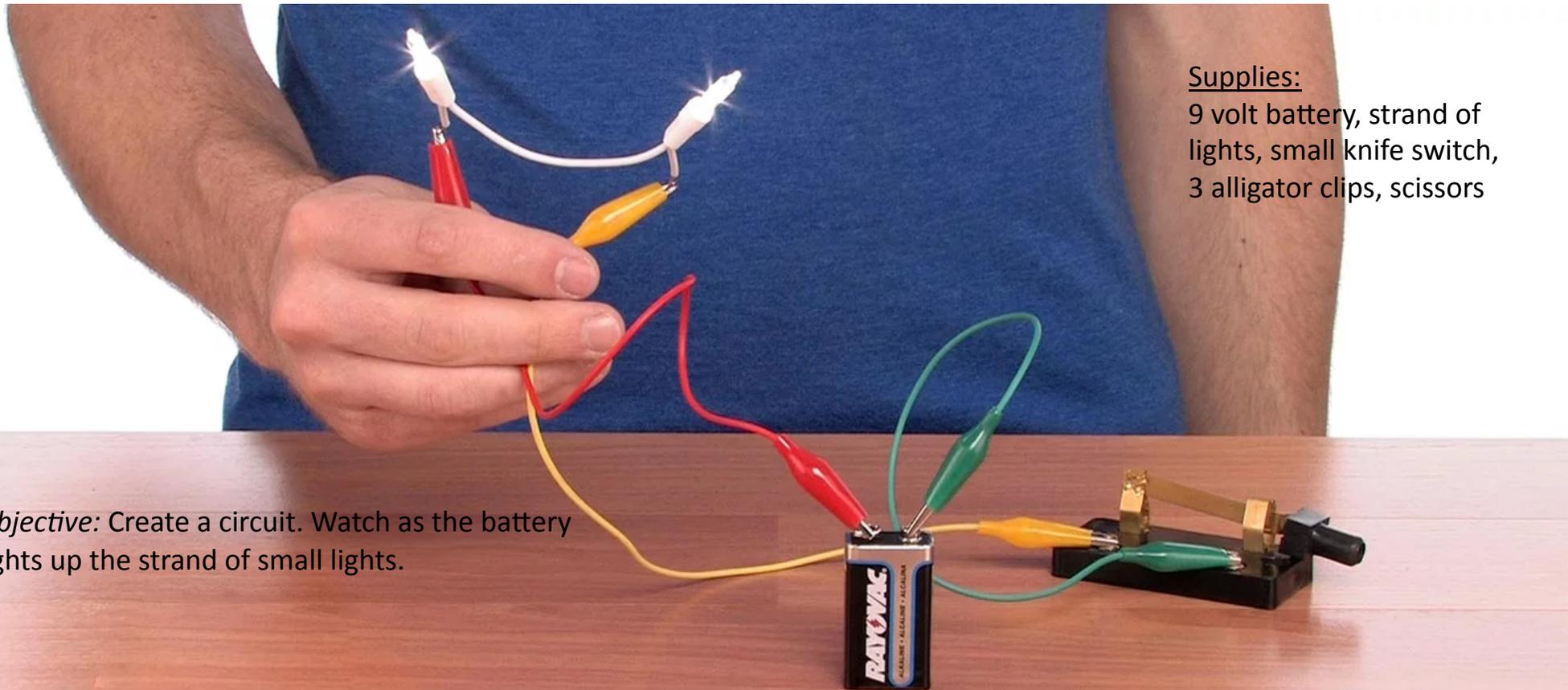


Create a Circuit

Supplies:

9 volt battery, strand of lights, small knife switch, 3 alligator clips, scissors

Objective: Create a circuit. Watch as the battery lights up the strand of small lights.





Build a Bridge

Supplies:

Spaghetti noodles, mini marshmallows, tape, string, hanging weights

Objective: How much weight can your bridge support? Use the materials given to build a bridge to support the greatest amount of weight possible.



Supplies: red cabbage indicator, test tubes, eye droppers, household items to test

Objective: Add a drop of your household item, and watch as the color of the PH indicator changes. Then determine if your household item is an acid or a base. What color is it?

PH Testing

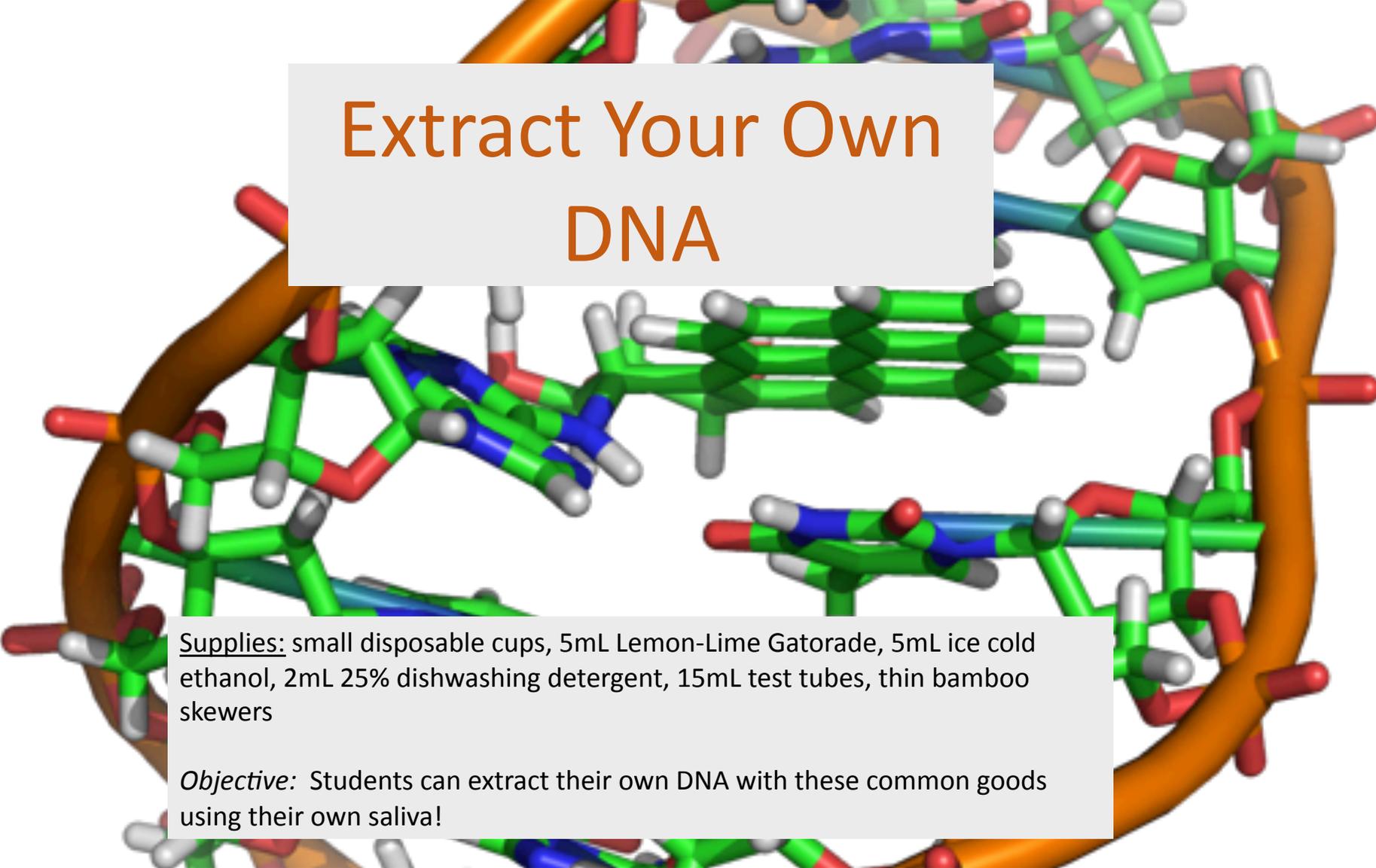


Catapults



Supplies: Jellybeans, popsicle sticks, spoons, rubber bands

Objective: Launch your candy as far as possible with the best designed catapult you can think of!



Extract Your Own DNA

Supplies: small disposable cups, 5mL Lemon-Lime Gatorade, 5mL ice cold ethanol, 2mL 25% dishwashing detergent, 15mL test tubes, thin bamboo skewers

Objective: Students can extract their own DNA with these common goods using their own saliva!



Rock Candy – you can watch the experiment happen in minutes, but for kids to see impressive sugar crystal results, allow them to take the experiment home and let sit for a week.

Instructions: Make saturated sugar water. 1 part water to 3 parts sugar. Add Koolaid packet. Put sugar dipped sticks into jar with mixture. Use clothespin to keep stick upright and prevent it from touching bottom of jar.

Science Behind the Scenes: The sugar water is a super saturated solution which means there is too many sugar molecules in the water to completely mix to create a uniform solution. Some of the sugar molecules will eventually precipitate out of solution as more and more water molecules evaporate into the air. The precipitates of sugar will form as crystals onto the stick.