

Virtual Try It! Science, July 20-24

Try a little bit of all the science topics! Try It! Science topics include chemistry, physics and engineering. See if you can build the tallest tower to hold one of your favorite toys! How far can you launch a pom-pom with a catapult made from everyday materials? Design and build a race car that will travel the furthest.

Weekly Activities for completed 1st and 2nd graders

Monday - Chemistry	Activity Name	Activity Description	Provided Supplies	Supplies Needed Not Provided by Camp Explorations
Live Activity	Green Penny Experiment	Why is the Statue of Liberty green? Campers will discover the answer to this question by submerging green pennies into a vinegar solution.	None	White vinegar, salt, green pennies, water, 2 small bowls
Independent Activity	Build Your Own Atom	Campers will learn about protons, neutrons, and electrons by modeling atoms using pipe cleaners and beads.	5-7 pipe cleaners, 10-15 beads	None needed

Tuesday - Physics	Activity Name	Activity Description	Provided Supplies	Supplies Needed Not Provided by Camp Explorations
Live Activity	Sound Sandwich	Get ready to be serenaded with this easy physics craft. Campers will build their own sound maker while learning about vibrations.	2 jumbo craft sticks, 1 straw, 1 wide rubber band, 2 regular rubber bands	None needed
Independent Activity	Oobleck	Non-Newtonian fluid seems like a big concept, but campers will know all about it, along with viscosity, after creating their own. This activity can get a bit messy, but it's worth it!	None	Water, corn starch, mixing bowl
Independent Activity	Paper Airplanes	This simple, everyday activity is elevated with information	2-4 sheets of white paper	None needed

		about resistance and forces and will allow campers to experiment with different designs to see which is best.		
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Wednesday - Engineering	Activity Name	Activity Description	Provided Supplies	Supplies Needed Not Provided by Camp Explorations
Live Activity	Rubber Band Race Car	Campers will put their engineering skills to the test to create a rubber band powered car with real wheels!	4 wheels, 2 straws, 2 wooden dowels, 1-2 rubber bands	None needed
Independent Activity	Popsicle Stick Catapult	How far will this pompom go? That's a question campers will be asking after engineering their own catapult using popsicle sticks and rubber bands.	8-10 popsicle sticks, 5 rubber bands, 1 plastic spoon, 3-5 pompoms	None needed

Thursday - Forensic Science	Activity Name	Activity Description	Provided Supplies	Supplies Needed Not Provided by Camp Explorations
Live Activity	Virtual Escape Room Mystery	Created by museum staff, this mystery game will have campers using their brains and detective skills to figure out "whodunit".	None needed	Pencil
Independent Activity	Fingerprint search	Using everyday items campers will dust their home for fingerprints and examine them to see if they can guess whose print it is.	1-2 pieces of dark construction paper, 1 paintbrush, clear tape	Flour
Independent Activity	Easy Invisible Ink Creation	Have you ever wanted to write a secret message? Campers will learn how to create invisible ink using household items. They will also learn how to reveal the messages.	3 pieces of white paper, 1-2 cotton swabs	Baking soda, water, heat source (flashlight or lightbulb on a lamp), grape juice (optional)

Friday - Engineering 2.0	Activity Name	Activity Description	Provided Supplies	Supplies Needed Not Provided by Camp Explorations
Live Activity	Aluminum Foil Boats	Using the engineering design process campers will design and build their own aluminum foil boats.	1 aluminum foil square, 1 plastic straw, 2-4 pieces of construction paper, tape	Scissors
Independent Activity	Build an Earthquake Proof Tower	After learning about seismic design principles, campers will build their own earthquake proof tower. Suggestions on how to test the towers will be included in the directions as well.	10 pieces of uncooked spaghetti, 20 mini marshmallows, 1 mini paper cup, tape, some yarn, miscellaneous item	Scissors

A comprehensive list of supplies that completed 1st and 2nd graders will need that is not being provided by Camp Explorations is provided below:

- Pencil
- Coloring Utensils (crayons, colored pencils, or markers)
- White Vinegar
- Salt
- Green Pennies
- Water
- Corn Starch
- 2 Small Bowls
- 1 Mixing Bowl
- Flour
- Baking Soda
- Grape Juice (optional)
- Flashlight
- Scissors

Family Activities for all age groups

Any Day of the Week	Activity Name	Activity Description	Provided Supplies	Supplies Needed Not Provided by Camp Explorations
Family Activity	Sound Waves Experiment	Discover sound waves and how they travel by creating different sounds using spoons	4 feet of yarn	2 different size spoons, wood or heavy plastic ruler
Family Activity	pH Testing with Cabbage	By first creating a pH indicator using cabbage, families will test substances such as lemon juice and dish soap to see if they are more acidic or basic.	pipettes	Check directions sheet, lots of supplies, but almost all are household items