Engineering BINGO (Grades K-3)

Make a boat that can really float. How can you modify your design so that it would be a fun bath toy?	Fold and fly different styles of paper airplanes. How can the science of flight help you design a better plane?	How many drops of water can you fit onto the surface of one penny? Tell us your number and why you think you were so successful?	Transform a room of your house into a castle! What features do you think are most important in real castle designs?	Create the ultimate creative rolling car that can go down a ramp. How many different ideas can you try?
Put some dirty pennies in vinegar. What happened? Why do you think this happened?	Do batteries really power the world? Go on a scavenger hunt to find things powered by batteries. What kind of batteries can you find?	Transform a sheet of paper into a fan. How many different designs can you come up with? How else can you transform paper?	Read a book with a STEAM theme. What book did you choose? How is it related to STEAM? What did you like about it?	Test objects in your house to see if they sink or float. Tell us what you discovered.
Discover how LEGO bricks are made. Can you use *your* LEGO to make one really big LEGO brick?	Plan and make a model playground. Who will you make a model playground for?	FREE SPACE	Build a car or house entirely out of edible materials. Consider having an edible car race	Put celery or flowers in water with food coloring. Tell us what happens over time.
Experiment with freezing different mixtures of water and salt. What do you notice about the amount of salt and the time it takes to freeze?	Build a pendulum by tying a weight on a string. What do you notice about the swing when you change the length? How can you use this as a timer?	Invent your own musical instrument. Share your invention with us.	Watch this video of Dominoes Falling. Can you build a domino falling chain reaction, or create something else that causes a chain reaction? Share.	Go outside and identify 3 different types of flowers. Make a drawing of each flower. Label your drawings and share your drawings to show what you have learned and done.
Draw 20 circles and turn each into something unique (pizza, tire, planet, etc.) Show us what you have created.	Grab two balls, go outside, and simulate the earth's rotation around the sun. What do you notice about the rotation?	Learn two bird calls. Demonstrate them on Flipgrid or SeeSaw.	Build a fort using couch, cushions, and blankets. What works? What doesn't?	Using *only* paper or index cards, design a tall tower that can support an object. What object will you try to support?