

## STEM and Maker At-Home Activities - PreK-2

Literature Suggestion: *The Most Magnificent Thing* by Ashley Spires

Be creative! Choose an activity to do with your family.

Build a boat that can hold the weight of 30 pennies using paper and tape. Test it!	Design and make 3 different paper airplanes and see which one flies the farthest.	Using Lego's, build a container that will hold exactly 10 pens or pencils.
Using only six lego pieces to create a duck and explain why it's the best duck!	Play a board game at home with your family that uses counting. Change one rule to make the game more challenging.	Design a maze. Give it to a family member to solve.
Create a structure of paper and tape that won't fall apart when a glass of water is poured onto it. Test it!	Build a catapult that can get a marshmallow (or similar) into a cup 3 times in a row.	Design and build something that won't fall apart when you drop it from as high as you can reach.
Create a secret code. Write a message using that secret code. Give it to someone to decode the message.	Find 20 random objects in your house. Find a way to organize everything into 4 different groups. Show what you did and see if they can figure out the groupings.	Create a simple line drawing with a pencil and a piece of paper. Give instructions to someone to see if they can draw the same picture as you.
Using 2 pieces of paper and 10 inches of tape, build the tallest tower you can in 10 minutes.	Using objects around the house, construct an upside down pyramid that's at least 10 inches tall.	Cut out pictures from old magazines or newspapers. Use them to make a collage that tells the story of the best day ever.
Look up a cooking recipe. Half or double the ingredients. With an adult, try cooking the recipe and see how it comes out.	Go for a walk around your house and collect 6 different objects. When you get home write a story incorporating those 6 objects.	Use things you find around the house to make musical instruments. Have a jam with your family!
Using lego pieces or other building materials, create a car and explain why it's the coolest car!	Using sidewalk chalk, design, draw and play a life-sized board game on your driveway or sidewalk.	Put together a jigsaw puzzle with a family member. For an extra challenge, turn the pieces upside down and try to solve it.