## 77 Simple STEM Activities for Families #3 Invent a machine to sort □ Look up Frank Stella art and ☐ Put a chicken bone in **LEGOs** make your own STEM art vinegar for 5 days & see □ Find something in your yard ☐ Sort and graph the colors in what happens from every rainbow color a bag of M&M's or Skittles Learn to tie knots □ Drop 2 items to see which □ Put seeds in wet paper towel ☐ Make a "stained glass" falls fastest (use slo-mo in a Ziploc bag & hang in a pattern using tape and camera if necessary) window to sprout sidewalk chalk ☐ Fold a sheet of paper □ Compare nutrition facts for ☐ Keep track of the cars that go by (how many each hour, different ways to see how food items in your kitchen to make it fall faster Watch October Sky what colors, etc) □ Watch Wall-E □ Build a famous building in ☐ See who can find the most polygon shapes in your home □ Track & graph your family's Minecraft daily garbage output ☐ Pick 10 things (pinecones, ☐ Make a cardboard pinball stop signs, squirrels, etc) & ☐ Set up a recycling station in game tally how many you see your home or school ☐ Test different foods to see if on a walk ☐ Build the longest paper chain they float or sink ☐ Construct an igloo out of using 1 piece of paper & tape □ Learn how movies are made sugar cubes or mini ☐ See how many times you can using Pixar In a Box marshmallows fold a piece of paper in half □ Test Double Stuf Oreos to ☐ Build a ramp for a toy car, ☐ Plant seeds in a clear water see if they're actually double then change the angle to bottle to watch the roots grow ☐ Turn an old shirt into a pillow make it go faster & farther ☐ Make Pixel art using ☐ Recycle plastic grocery bags □ Research different pets piskelapp.com into a ball, bag, or artwork before getting one ☐ Test the strength of different ☐ Draw your favorite movie ☐ Turn paperclips, pen caps, size rubber bands character in a STEM career or milk jug rings into pictures □ "Invent" your own island ☐ Make a flip book Watch Spare Parts & build □ Build a racetrack or obstacle ☐ Use the FlipaClip app to an underwater robot course for toy cars make a digital flip book □ Build a marble roller coaster ☐ Pick up garbage using the ☐ Make a zip-line for a LEGO using paper towel tubes Litterati app mini-figure ☐ Make your own song using □ Build a device to safely grab Design a gadget for a **Chrome Music Lab** litter favorite TV character □ Learn to carve a bar of ☐ Read an inventor's biography ☐ Play a game of Shut-the-Box soap with a popsicle stick □ Watch a video from The Slow □ Put leaves under a sheet of ☐ Go for a walk and use an Mo Guys on YouTube paper & rub over their shape app to identify plants ☐ Try 5 different recipes for the with a crayon ☐ Record a bug, butterfly, or same type of cookies ☐ Paint or draw a picture, build spider in slow motion ☐ Learn which science words a frame, & hang it on the wall ☐ Make constellations on come from Latin language Calculate how many books the wall by poking holes ☐ Make Anamorphic drawings would reach your ceiling or in a paper cup & shining a ☐ Find the area of various fill your room flashlight through it chip and cracker shapes ☐ Make a robotic arm using ☐ Make homemade ice cream cardboard, straws, & yarn ☐ Make puppets ☐ Make a model of your home ☐ Make a prosthetic arm out □ Turn a cardboard box into □ Watch Joseph's Machines on of LEGOs or other items a pet playground YouTube & create your own □ Set up dominoes and ☐ Make art using graph paper ☐ Have a cake design contest record a video □ Build a catapult ☐ Make a Density Column ☐ Find the oldest item in your ☐ Make hidden messages □ Use an inkpad to make using lemon juice fingerprints, then compare □ Draw what you think cars will ☐ Make your own Diet Coke to your family look like in 10 or 20 years and Mentos experiment Chris Woods @dailySTEM dailystem.com/resources