

Unplugged STEM Activities

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| Use items you would throw away or recycle and make something useful. Name your product, set a price, and create a slogan. | Scientists want to understand the world around us. Choose an object or something in nature. Ask 5 WHY or WHAT questions about this item. | Engineers are trained to use the knowledge of science to improve the world. Do you notice anything that can be improved? Draw a new design. | Play a family game like Monopoly that uses critical thinking and math skills. | Design your own game or sport using household materials. Invite family members to play! |
| Build a raft from aluminum foil. How many coins can it hold? Improve your design and try again. | Create your own experiment using baking soda + vinegar. | Find your favorite doll or action figure and design a zip line to get them from one level to another (tree to ground, table to floor). | Predict how many pennies can be placed in a full glass of water before it overflows. Fill a glass to the rim. Add pennies one by one. | Turn on the water slowly. Brush a plastic comb through your hair 10x. Slowly bring the comb close to the water. |
| Pick 3 objects to place in a bag. Have a family member guess the objects with only touching. You can do the same with smelling. | Build a house made of playing cards. What configurations are the strongest? Why? | Which 3 jobs would you like to have when you grow up? Can you find someone in one of those careers to talk with? | Imagine you are going camping. How will you keep food away from hungry bears? | Build a tower as tall as possible using only sheets of newspaper. No tape or glue allowed! |