

# STEAM Activities for All Ages



## Robot Hand

Create this fun, articulated hand with individually moving fingers! Kids will enjoy this one so much they won't even realize they're learning engineering. Add some extra creativity to the project by having them decorate their hands ahead of time. They can take inspiration from mehndi tradition, add zentangle patterns, or go traditional and add jewelry and painted nails. Instructions here:

<https://www.kaplanco.com/ii/diy-robot-hand?CategoryID=28>



## Rainbow Rain Experiment with Shaving Cream

Learn the science of rainfall with this vibrant experiment that will have all your kids entranced, regardless of age.

<https://www.growingajeweledrose.com/2019/02/rainbow-rain-experiment.html>



## Penny Spinners

This simple project takes only a few minutes to put together with materials you already have lying around the house.

Encourage your kids to create different patterns and color combinations and talk about the way the patterns look once they start spinning. <https://teachbesideme.com/stem-toy-penny-spinners/>



## Design your Dream Home

This project is fabulous because you can adjust it based on your child's age range. Use our free downloadable graph paper for your youngest to simply draw the front of their dream home and talk about special things they'd want to include inside. For older kids, have them design the blueprint of their home. How big would certain rooms be? How many bathrooms would there be? Would they include secret passageways?

For some great suggestion to take this activity a little deeper, check out <https://teachbesideme.com/architecture-stem-frank-lloyd-wright/>. If your kids' imagination is triggered by this sort of project, go even deeper by making a city block or designing a city! Teachers Pay Teachers have printables you can download at a reasonable price, along with instructions for how to design your perfect city or neighborhood. Check it out [here](#).