

77 Simple STEM Activities for Families:

Nature Edition



- Find something in your yard from every rainbow color
- Watch *Wall-E*
- Track & graph your family's daily garbage output
- Learn about local recycling
- Set up a recycling station in your home or school
- Plant seeds in a clear water bottle to watch the roots grow
- "Invent" your own island
- Pick up garbage using the [Litterati](#) app
- Build a device to safely grab litter
- Turn a cardboard box into a pet playground
- Put seeds in wet paper towel in a Ziploc bag & hang in a window to sprout
- Turn an old shirt into a pillow
- Recycle plastic grocery bags into a ball, bag, or artwork
- Put leaves under a sheet of paper & rub over their shape with a crayon
- Paint or draw a picture of a plant, build a frame, & hang it on the wall
- Make hidden messages using lemon juice
- Pick 10 things (pinecones, birds, squirrels, etc) & tally how many you see on a walk
- Research different pets before getting one
- Repurpose paperclips, pen caps, or milk jug rings into art
- Watch *Spare Parts* & build an underwater robot
- Go for a walk and use an app to identify plants
- Record a bug, butterfly, or spider in slow motion
- Make constellations on the wall by poking holes in a paper cup & shining a flashlight through it
- Create a treasure hunt with a map & clues

- Learn to identify trees by their leaves or bark
- Make the alphabet from sticks or other natural items
- Make your name or words out of recycled materials
- Make something from old puzzle pieces
- Plant some flowers
- Make dinner for your family
- Determine how much waste there is from cooking a meal
- Invent your own musical instrument using recyclables
- Measure & graph temperature or rain totals
- Make a time capsule to open in 10 years
- Plant a butterfly garden
- Watch *Cloudy with a Chance of Meatballs*
- Try sprouting a carrot top, dried bean, or fruit seed
- Put celery or flowers in water that contains food coloring
- Learn bird calls
- Turn an old book into art
- Observe the moon each night & take pictures to make a time-lapse video
- Make a bird feeder using a pinecone, suet, & birdseed
- Count how many & what type of birds come to your birdfeeder
- Paint rocks with encouraging words
- Learn to weave using grass or strips of birch bark
- Make a sundial
- Invent a board game using bottle caps or other small recycled items as pieces
- Make a slow-motion video of something in nature
- Learn to fold cloth napkins
- Draw 20 circles & turn each into something from nature (bugs, planets, rocks, etc)

- Make something from an empty toothpaste tube
- Look at the clouds
- Learn about the history of technology in your area
- Take a walk in the backyard
- Buy something at a garage sale & take it apart
- Fix a broken toy (instead of throwing it away)
- Plant some seeds & record their growth
- Learn to fix something on your family car or your bike
- Take pictures of nature & turn them into postcards
- Create a stop-motion video using items from nature
- Use a magnifying glass to search the ground for bugs
- Interview a Senior Citizen about how technology has changed their world
- Learn to use a compass & take a hike
- Learn about ocean life
- Create something using [instructables.com](#)
- Make your own puzzle
- Go camping or fishing
- Weed a garden & identify the weeds
- Go fossil hunting
- Design & build boats for LEGO figures & test them
- Visit a farm or nature center
- Build a solar oven & cook something
- Make a time-lapse video of something in nature
- Find 20 rocks & sort by color, size, weight, or shape
- Learn about different types of rocks
- Make a commercial for a local landmark or park
- Learn to carve or whittle
- Start composting your kitchen waste

