

MAKERSPACE PROJECTS



for Earth Day

MakerSpace Project

Create a Nature Wreath



Go on a nature walk to gather interesting leaves, flowers, berries, etc.. To make the wreath forms, braid together strips of old t-shirts and form into a circle. Then attach natural items into the crevices and secure with clear fishing line or hot glue. Attach a ribbon at the top to hang your wreath.

MakerSpace Project

Create a Quilt



Textiles make up a huge portion of municipal solid waste—over 16 million tons per year. Repurpose old material that would otherwise end up in the landfill by putting together a cozy quilt!

MakerSpace Project

Create a Paper Pot



Cut off the bottoms of beverage bottles or reuse food containers and jazz them up with brightly colored paper scraps. Except for the glue, these paper -mâché planters are composed solely of recycled materials.

STEM CHALLENGES





STEM Challenge #1

If you could design a new plant what would it look like? Draw a picture of it or create it out of craft materials. Write a description of it and its habitat.



STEM Challenge #2

Acid rain is caused by the release of pollution into the air by factories and automobiles.

The polluted rain falls into bodies of water poisoning fish. If a poisoned fish could talk, what would they say?



STEM Challenge #3

Design a museum that focuses on teaching children about the environment. Draw a map of the floor plan and label the exhibits.



STEM Challenge #4

Invent a robot that can remove pollution from a river but would not harm living things.



STEM Challenge #5

Adaptations are traits that help an organism live in its environment . If you were an animal that lived where there was only daylight for two hours each day, what behavioral adaptations would you have to have?



STEM Challenge #6

Create a comic book that teaches younger children about good recycling habits.



STEM Challenge #7

Plastic garbage in the ocean kill thousands of sea creature each year. Invent a tool for removing plastic garbage from waterways.



STEM Challenge #8

Design a solar oven for S'Mores
using an empty pizza box and
foil.



STEM Challenge #9

Soil and sand erosion cause many problems. Engineer a system that solves shore erosion.



STEM Challenge #10

Create a sculpture that uses
three different recycled
materials.