

STEM Projects - Grades K - 2

Mrs. Smith

[michelle.smith@hwschools.org](mailto:michelle.smith@hwschools.org)

April 13 - May 2, 2020

The projects are purposely similar throughout grades K-5 so families can work together and compare their results. If possible, share a picture of your project with me on Class Dojo and describe how it worked.

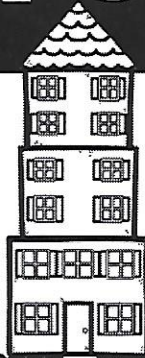
Week 1 - Make a tall tower using materials you have at home. There are suggested materials on the direction sheet, but please use whatever you have available. How tall is your tower? Was there a point when it was too tall and fell over? What did you do to improve your tower?

Week 2 - April 22 is Earth Day. Read the passage about Earth Day and answer the questions. Then make a Litter Bug or something useful out of recyclable materials you have at home. Have fun and be creative!

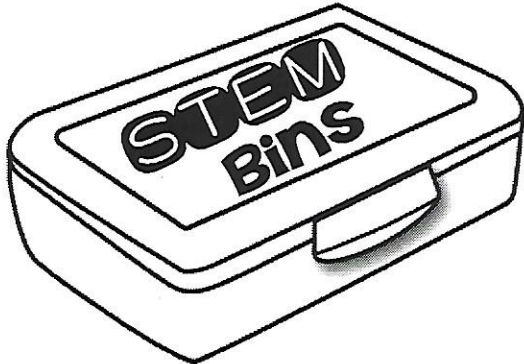
Week 3 - Make a bridge that holds pennies using materials you have at home. There are suggested materials on the direction sheet, but please use whatever you have available. How did you improve your bridge to hold more pennies?

# MAKER STATION

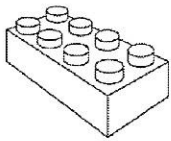
## Make a tall tower.



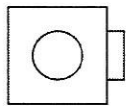
### MATERIAL OPTIONS



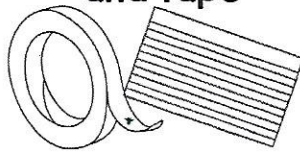
building bricks



linking cubes



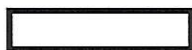
index cards and tape



mini cups



wooden planks



magnetic blocks



### RESOURCES

STRONG TRIANGLES



TALLEST BUILDINGS IN THE WORLD



SKYSCRAPERS



CUP TOWERS

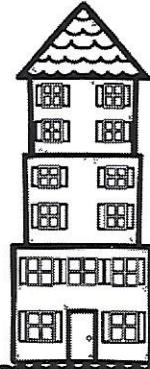
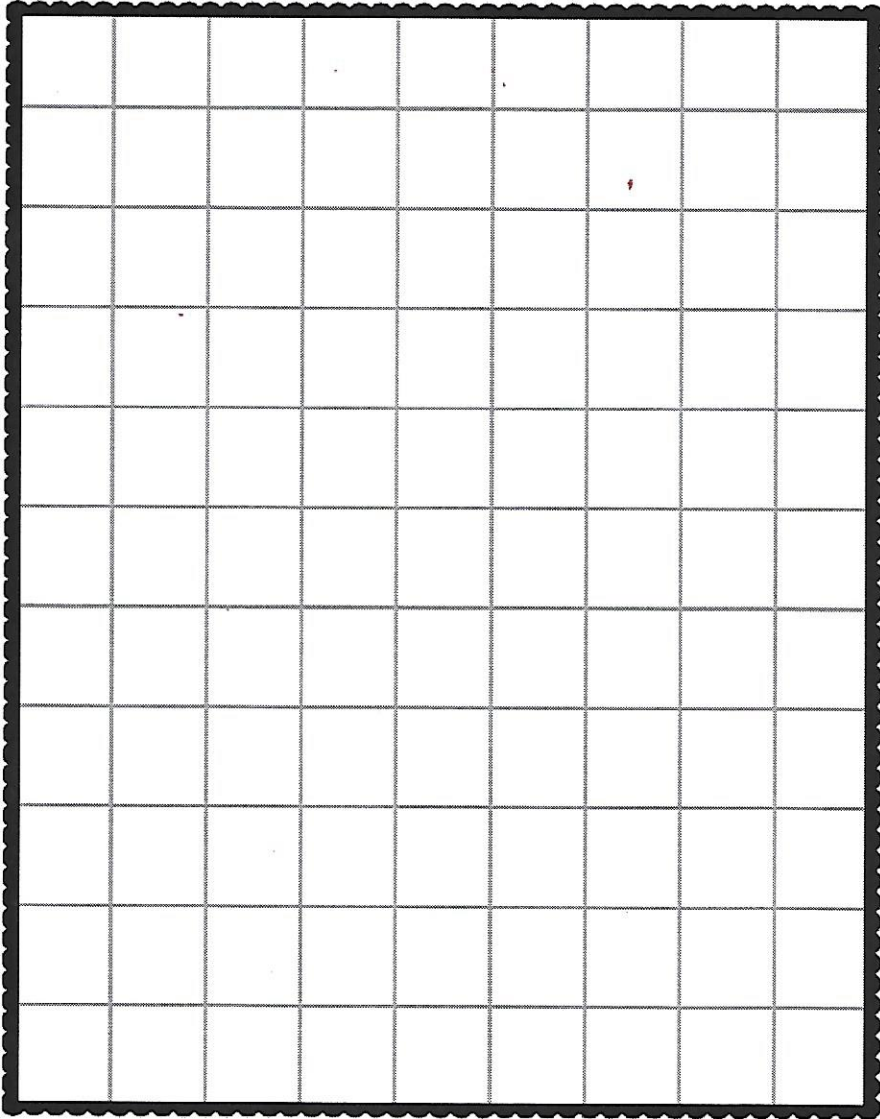


# TALL TOWER

## Maker Station Creation

Name: \_\_\_\_\_

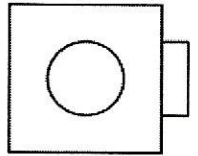
### Blueprint



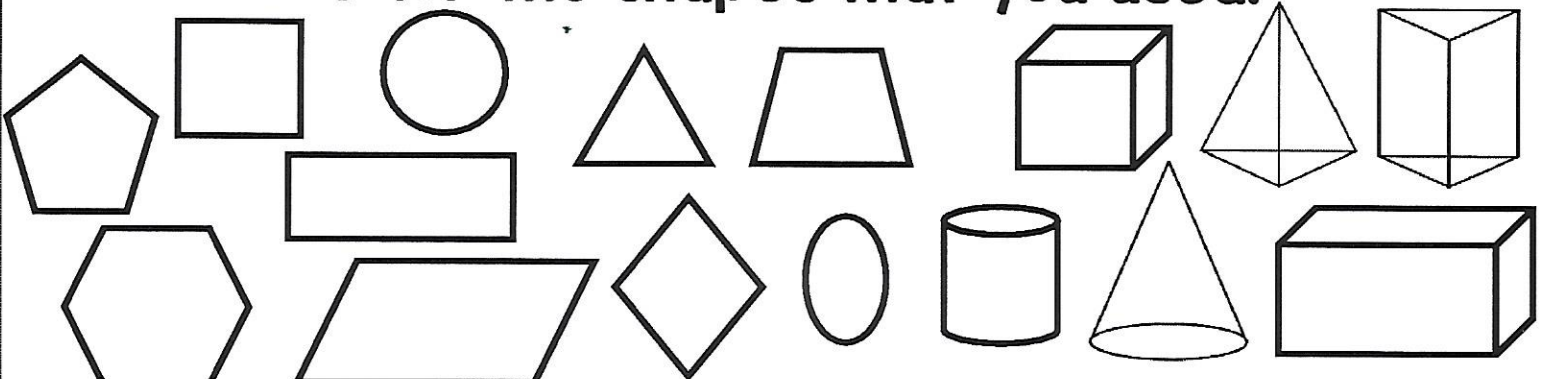
### MATERIALS

How tall is your tower?

\_\_\_\_\_ cubes



Color the shapes that you used.



## Earth Day

Earth Day is celebrated every year on April 22<sup>nd</sup>. It was first celebrated in 1970. People celebrate by doing things that help to protect the environment. Some things people do to help the earth are: turn off the lights to conserve energy, plant trees, recycle, and pick up garbage in their communities. You don't have to wait for Earth Day though, you can help the environment every day!



1. When is Earth Day celebrated?

---

2. What things do people do to protect the earth?

---

---

3. How do you think recycling helps the earth?

---

---

4. What can you do to protect the environment?

---

---

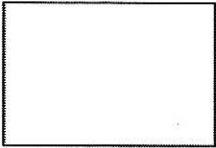
# MAKER STATION

Make something  
useful  
out of trash.

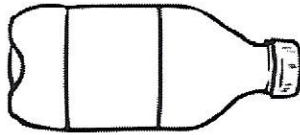


## MATERIAL OPTIONS

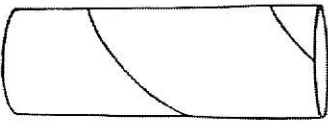
paper



plastic bottles



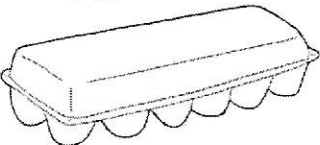
paper rolls



bottle caps



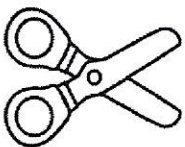
egg cartons



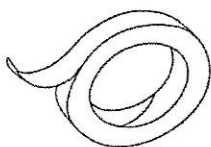
markers



scissors



tape



## RESOURCES

PAPER ROLL CREATIONS



PLASTIC BOTTLE CREATIONS

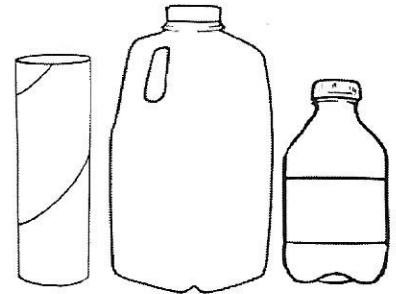
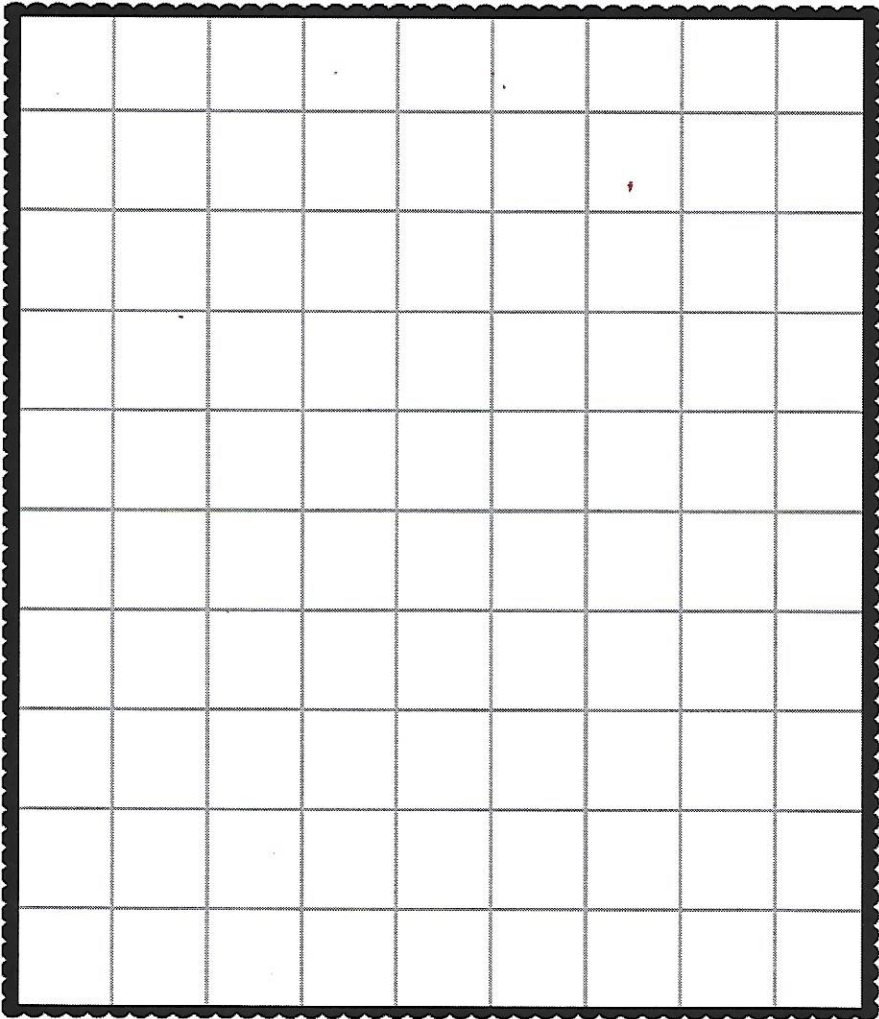


# TRASH TO TREASURE

## Maker Station Creation

Name: \_\_\_\_\_

### Blueprint



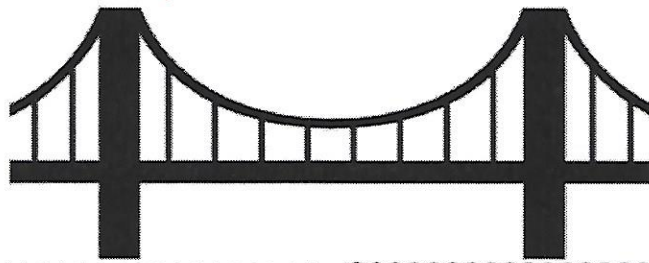
What I Made:

### MATERIALS

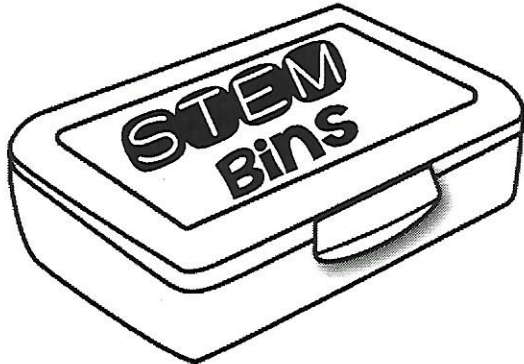
### HOW IT IS USEFUL

# MAKER STATION

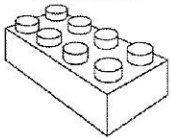
Make a bridge  
that holds  
pennies.



## MATERIAL OPTIONS



building  
bricks



wooden  
planks



straws and  
pipe cleaners



pennies



## RESOURCES

STRONG BRIDGES



TYPES OF BRIDGES

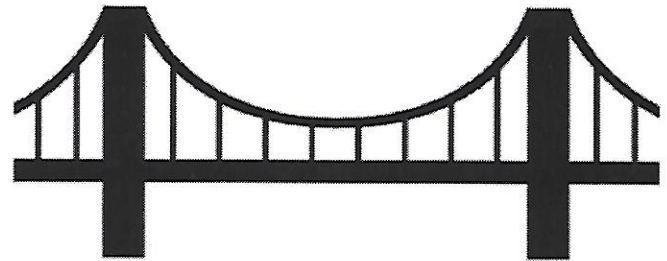
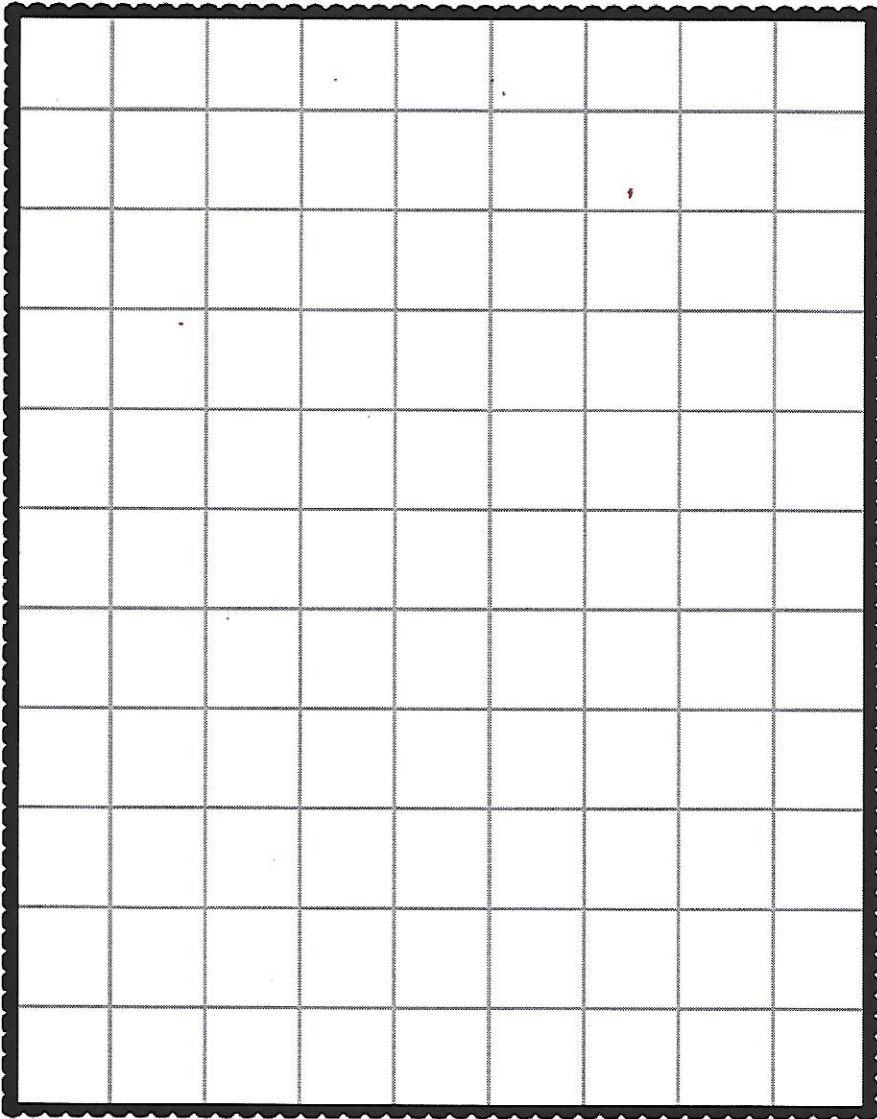


# BRIDGE

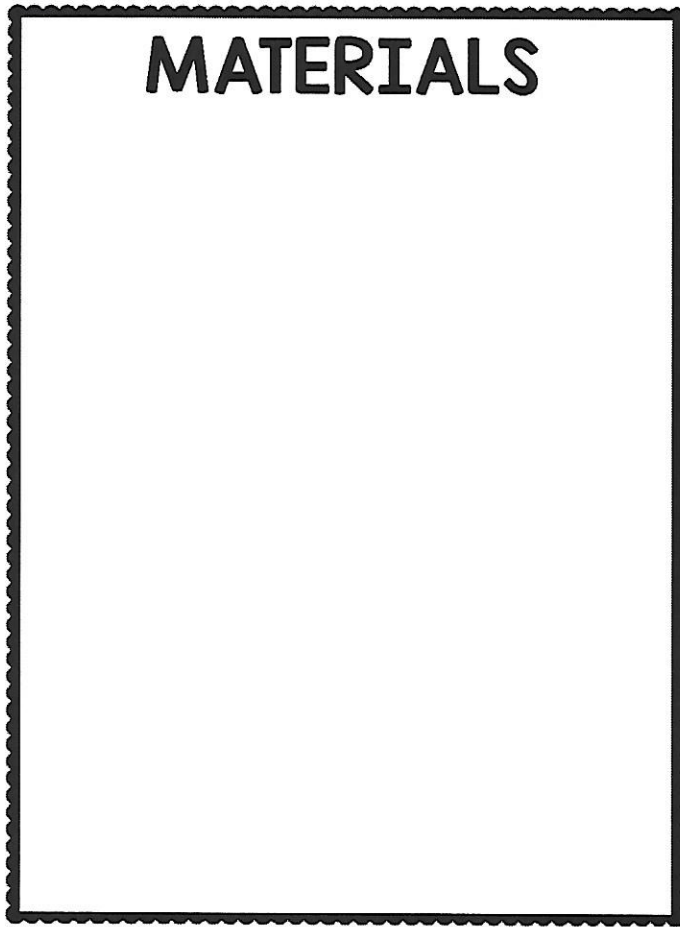
## Maker Station Creation

Name: \_\_\_\_\_

### Blueprint



### MATERIALS



How many pennies does  
your bridge hold?

\_\_\_\_\_ pennies



What else can your  
bridge hold?