

# 3 WEEKS OF

# MAKERstations



CREATED BY BROOKE BROWN



# CONTENTS

**Page 3-4: Components & How to Use**

**Page 5: App Extensions**

**Pages 6-40: MAKER STATIONS & RECORDING SHEETS**

**6-7 PAPER AIRPLANE**

**8-9: ROLLING VEHICLE**

**10-11: BOX**

**12-13: TOWER**

**14-15: BRIDGE**

**16-17: PARACHUTE**

**18-23: BOARD GAME**

**24-25: CHAIN REACTION**

**26-27: MUSICAL INSTRUMENT**

**28-29: CATAPULT**

**30-31: ORIGAMI**

**32-34: STRAW ROCKET**

**35-36: MARBLE MAZE**

**37-38: TRASH TO TREASURE**

**39-40: TOY**

**Page 41: Credits**

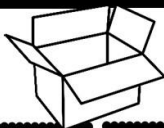
# COMPONENTS

Instruction Cards  
with supply lists  
and QR Code Resources  
for students


Student Planning  
and Reflection Sheets

## MAKER STATION

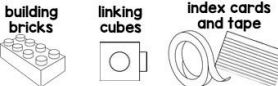
**Make a box that holds pennies.**




### MATERIAL OPTIONS



building bricks    linking cubes    index cards and tape




pennies




### RESOURCES

BUILDING BRICK CONTAINER



INDEX CARD BOX



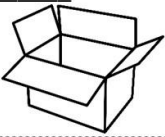
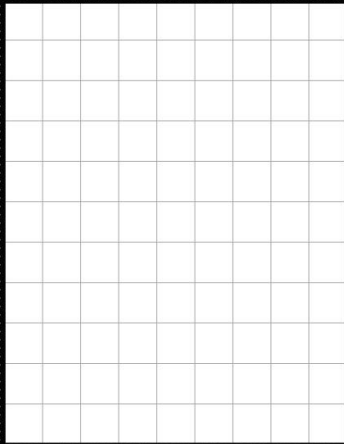
©Brooke Brown

## BOX

Maker Station Creation


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

### Blueprint



### MATERIALS

How many pennies does your box hold?

\_\_\_\_\_ pennies 

What else can your box hold?


©Brooke Brown

Optional  
App Extensions

## MAKERstation

### EXTENSION APPS


#### SEESAW



CLASS


Take a photo of your creation and write or record a description OR record a video to describe your creation and how it works.

#### APPLE NOTES




Take a photo of your creation. Add text labels on your picture. Write a description of your creation.

#### DRAW & TELL



Add a photo of your creation as the background and add stickers. Use the "record" button to describe your creation and how it works.

#### IMOVIE



Record a movie to share how you made your creation and how it works.

©Brooke Brown

# HOW TO USE

**Maker Stations provide targeted design thinking challenges for elementary students, emphasizing skills in engineering, art, math, science, technology, and music. 15 Maker Station options are provided for 3 weeks of daily home activities.**

**Each Maker Station includes simplified supply lists, instructions, scannable QR code resources, and student planning/reflection templates.**

**App extensions are provided for students to share and present creations virtually.**

# MAKER Station

## EXTENSION APPS

### SEESAW



Take a picture of your creation. Write or record your voice to tell about it.

### APPLE NOTES



Take a picture of your creation. Add labels on your picture. Write about your creation.

### DRAW & TELL



Add a picture of your creation as the background. Add stickers. Use the "record" button to tell how your creation works.

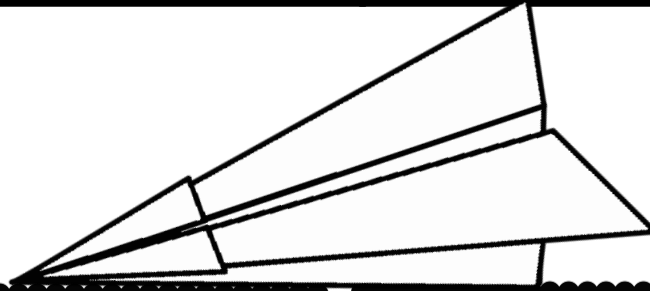
### IMOVIE



Record a movie about how you made your creation and how it works.

# MAKER STATION

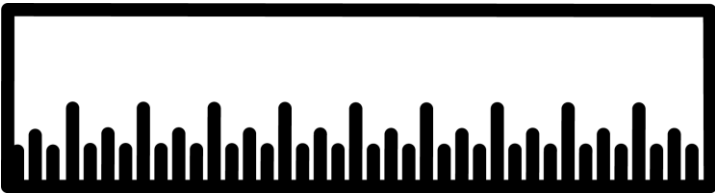
Make a paper  
airplane  
that flies.



## MATERIALS



paper



meter stick

## RESOURCES

MAKE A PAPER AIRPLANE



FOLD N FLY

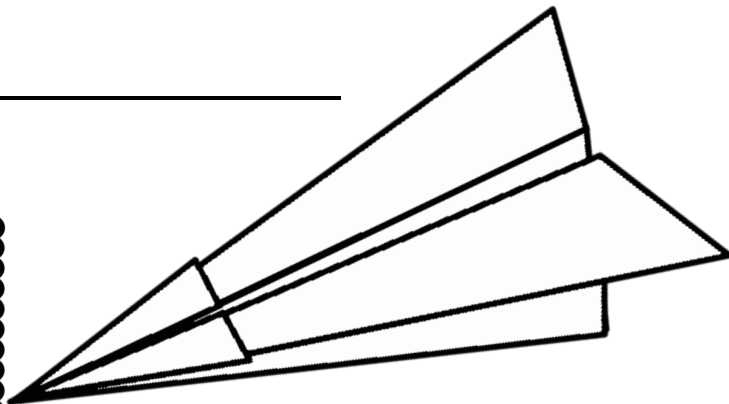
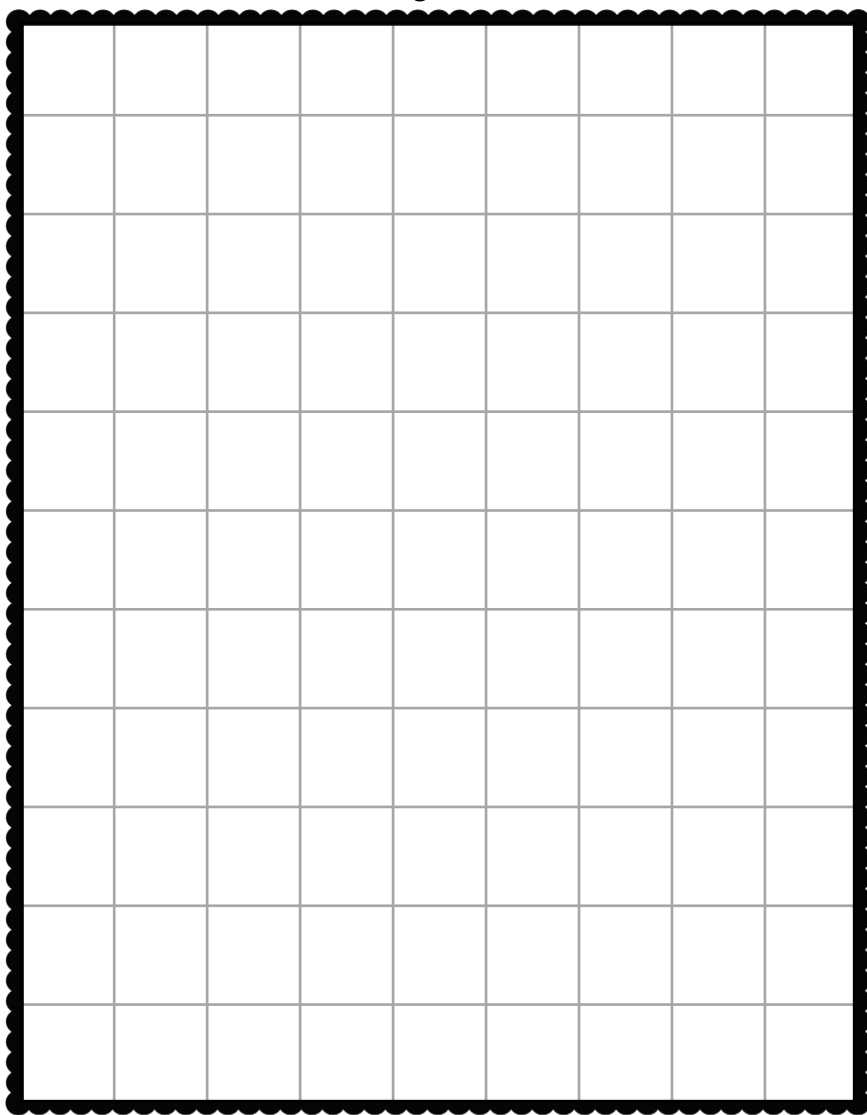


# PAPER AIRPLANE

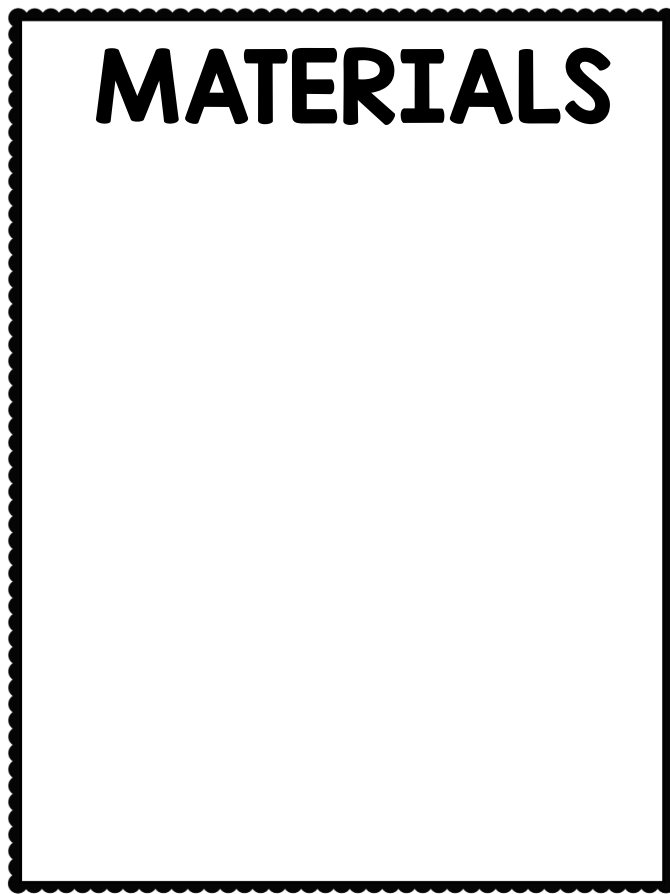
## Maker Station Creation

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

### Blueprint



### MATERIALS



### FLIGHT TESTS

TEST	How far did it fly?
1	
2	
3	

# MAKER STATION

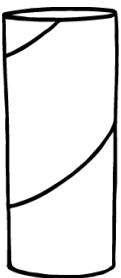
Make a rolling vehicle.



## MATERIAL OPTIONS

### CARDBOARD VEHICLE

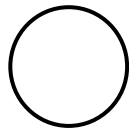
paper rolls



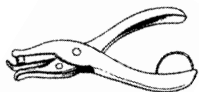
paper fasteners



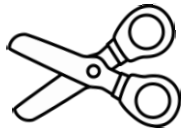
cardboard circles



hole puncher



scissors



### MINI CUP VEHICLE

mini cups



straws



toothpicks



foam balls or playdough



tape and scissors



## RESOURCES

### CARDBOARD VEHICLE



### MINI CUP VEHICLE



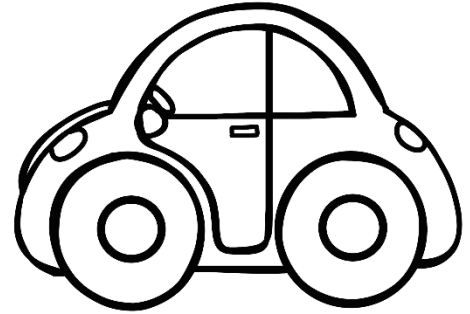
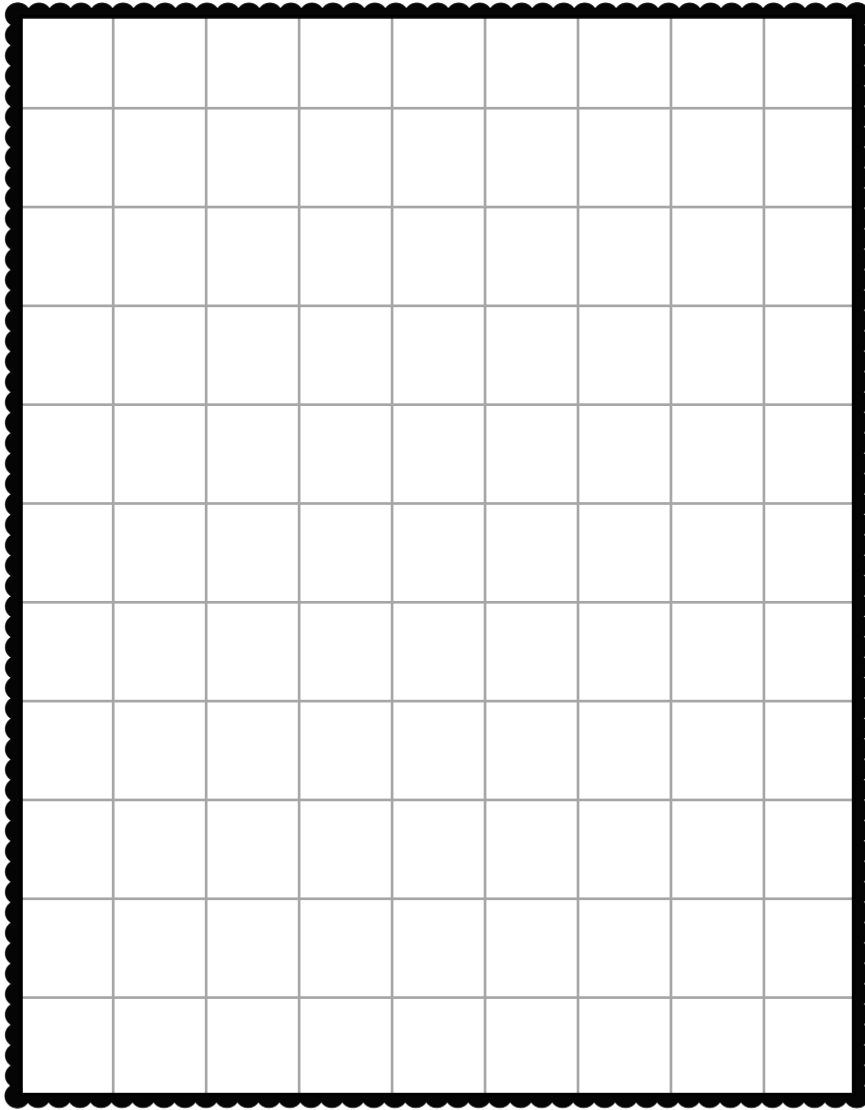


# VEHICLE

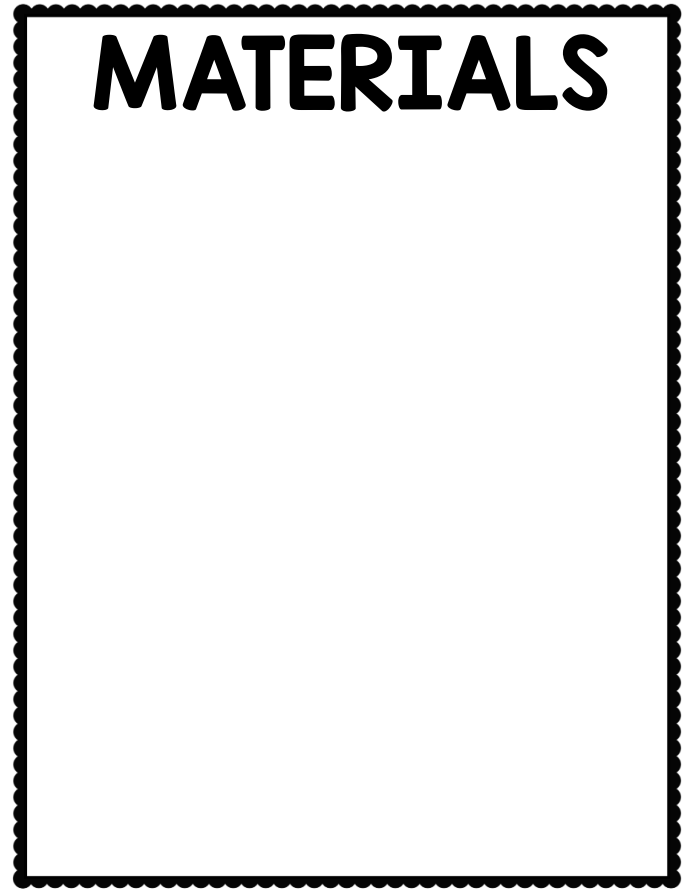
## Maker Station Creation

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

### Blueprint

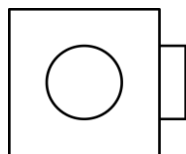


### MATERIALS

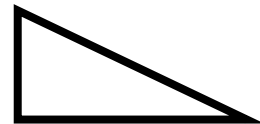


How far did your vehicle roll?

\_\_\_\_\_ cubes

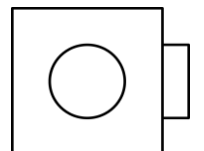


Build a ramp.



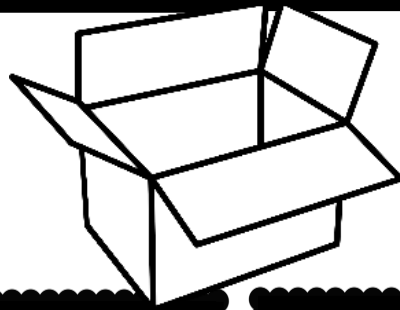
How far did your vehicle roll?

\_\_\_\_\_ cubes

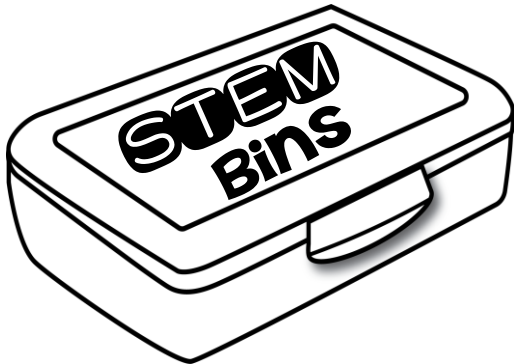


# MAKER STATION

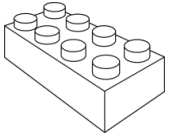
Make a box that holds pennies.



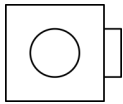
## MATERIAL OPTIONS



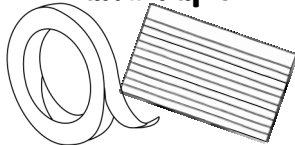
building bricks



linking cubes



index cards and tape



pennies



## RESOURCES

BUILDING BRICK CONTAINER



INDEX CARD BOX

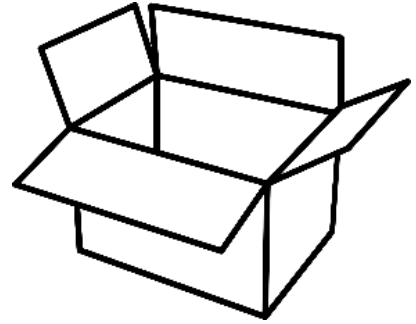
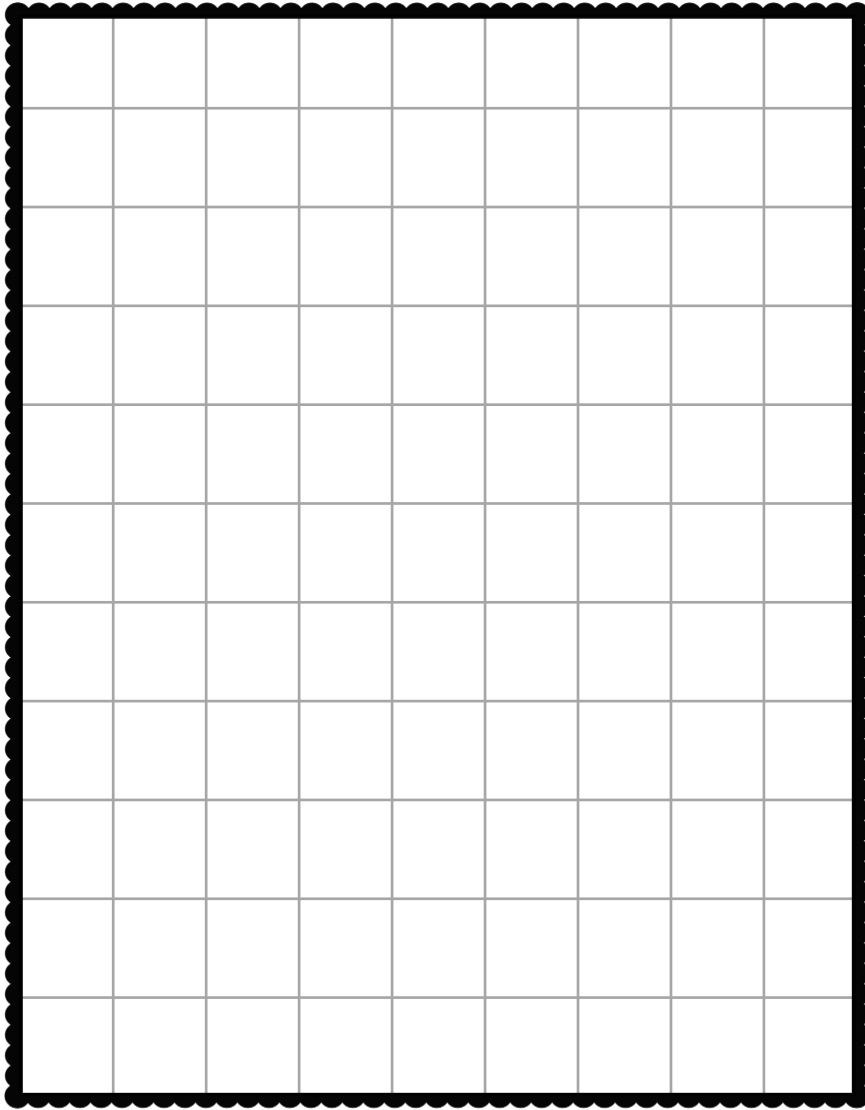


# BOX

## Maker Station Creation

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

### Blueprint



### MATERIALS

How many pennies does  
your box hold?

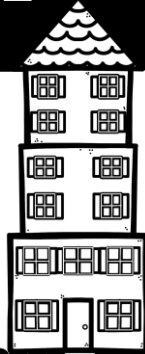
\_\_\_\_\_ pennies



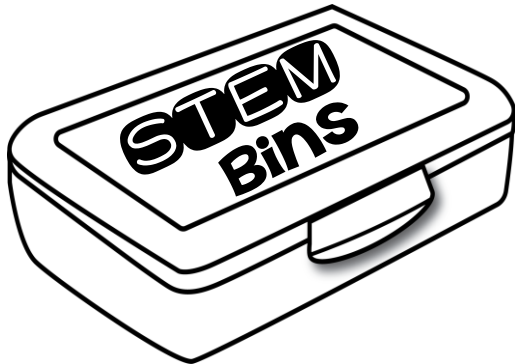
What else can your  
box hold?

# MAKER STATION

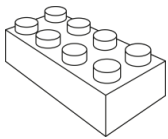
## Make a tall tower.



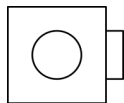
### MATERIAL OPTIONS



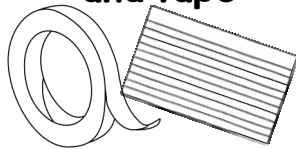
building bricks



linking cubes



index cards and tape



mini cups



wooden planks

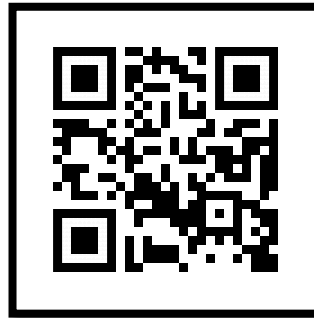


magnetic blocks



### RESOURCES

STRONG TRIANGLES



TALLEST BUILDINGS IN THE WORLD



SKYSCRAPERS



CUP TOWERS

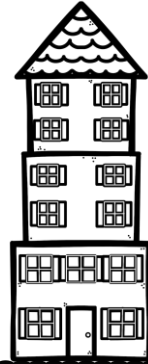
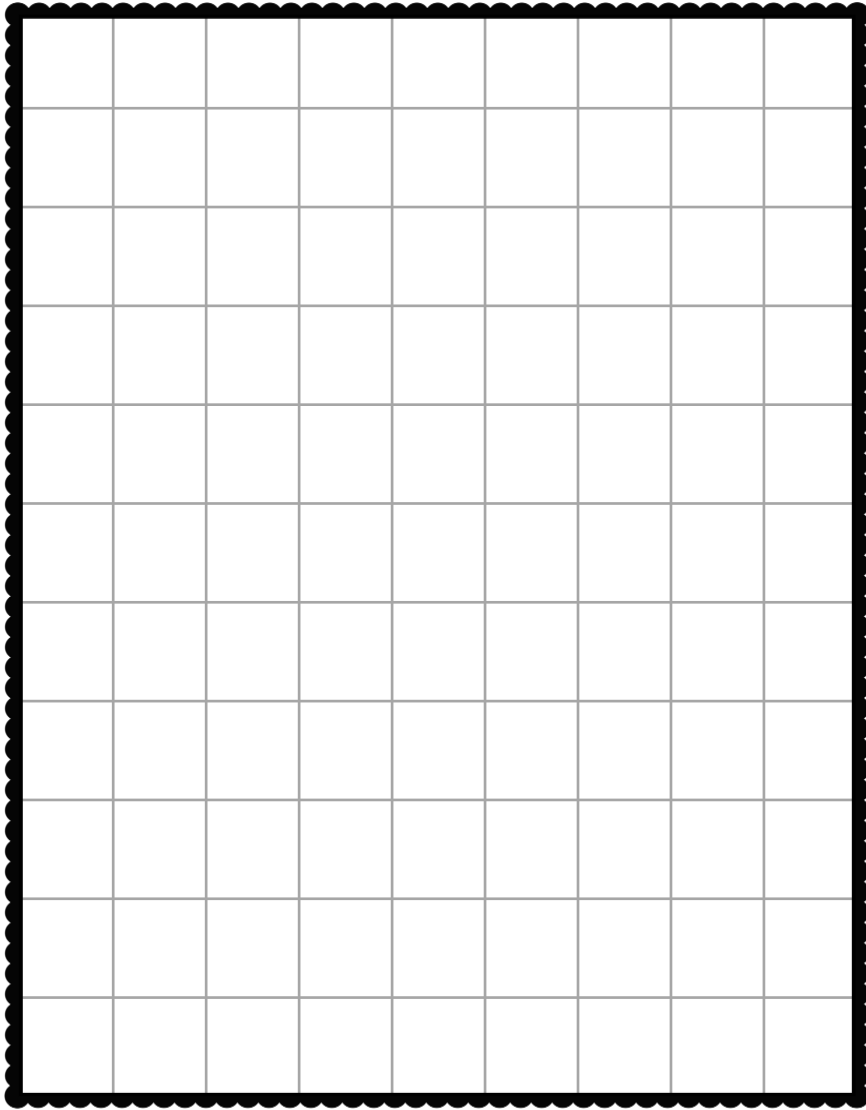


# TALL TOWER

## Maker Station Creation

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

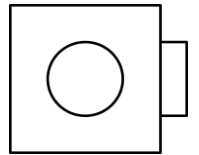
### Blueprint



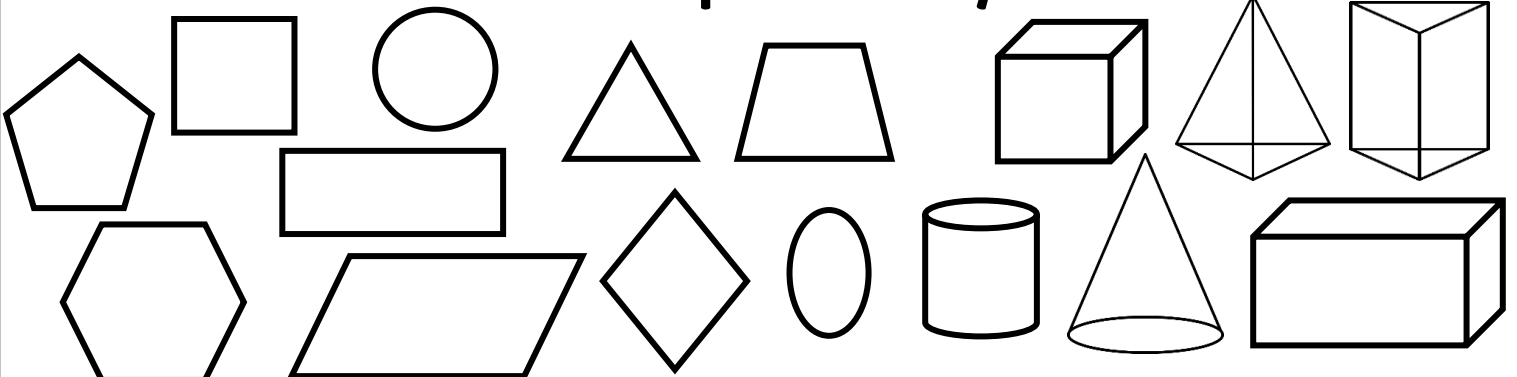
### MATERIALS

How tall is your tower?

\_\_\_\_\_ cubes



Color the shapes that you used.

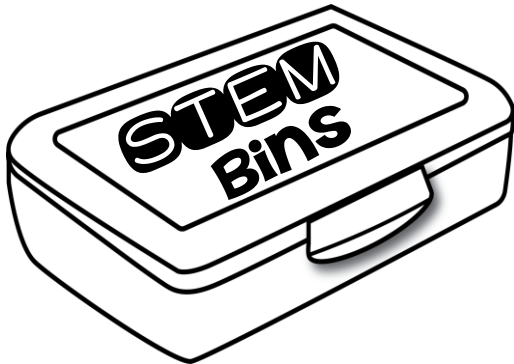


# MAKER STATION

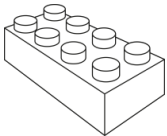
Make a bridge  
that holds  
pennies.



## MATERIAL OPTIONS



building  
bricks



wooden  
planks



straws and  
pipe cleaners



pennies



## RESOURCES

STRONG BRIDGES



TYPES OF BRIDGES

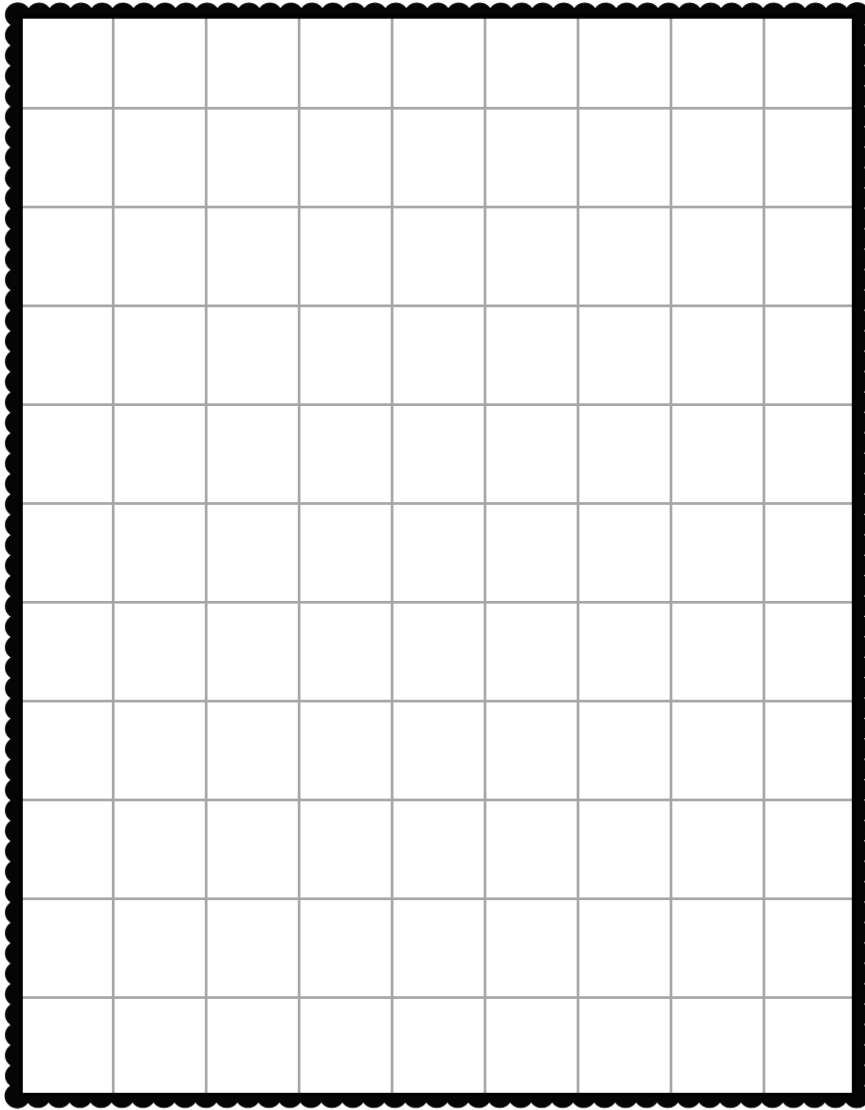


# BRIDGE

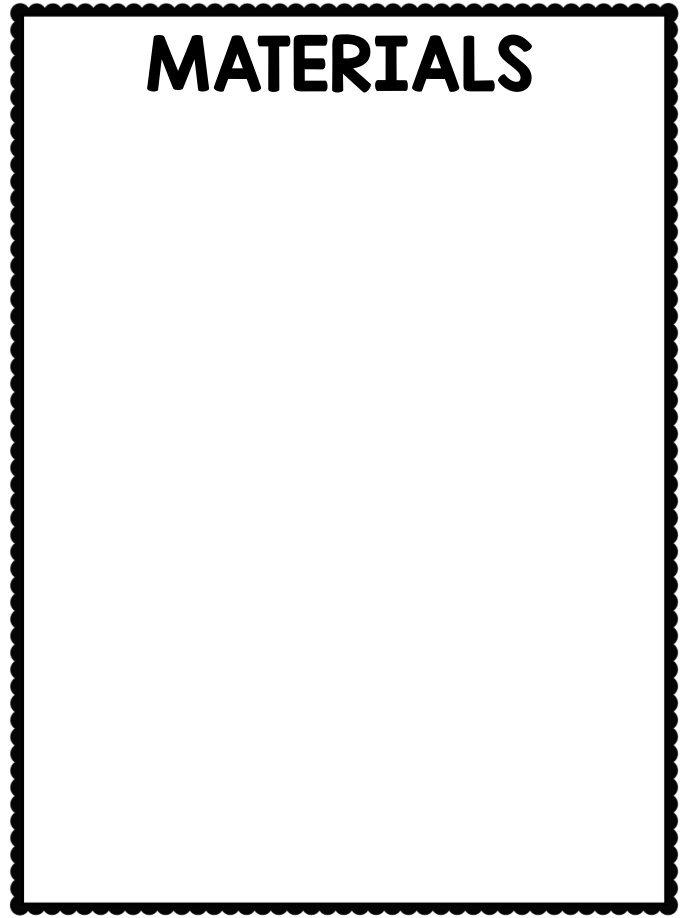
## Maker Station Creation

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

### Blueprint



### MATERIALS



How many pennies does your bridge hold?

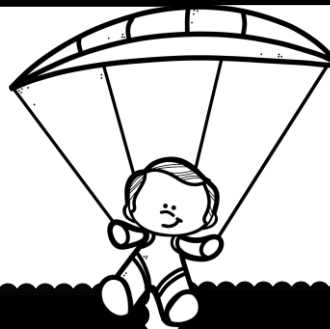
\_\_\_\_\_ pennies



What else can your bridge hold?

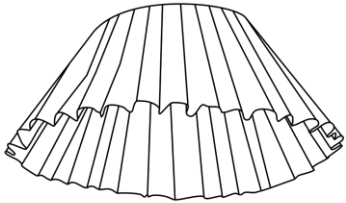
# MAKER STATION

Make a parachute and basket for a mini figure.



## MATERIALS

coffee filters



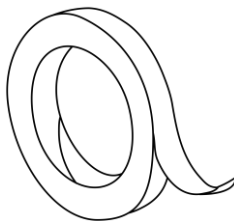
mini cups



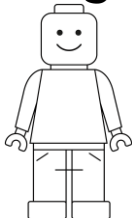
string



tape



mini figures

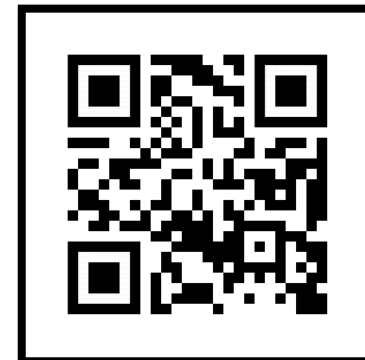


## RESOURCES

HOW PARACHUTES WORK



MAKING PARACHUTES



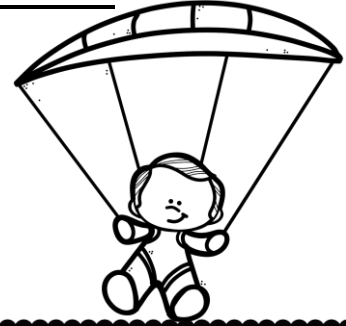


# PARACHUTE

## Maker Station Creation

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

### Blueprint

### MATERIALS

Blank area for listing materials.

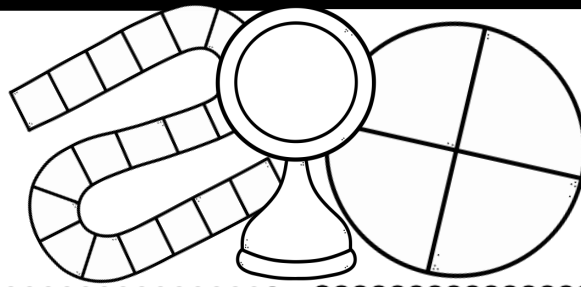
Did your mini figure land safely?

**YES**      **NO**

What else can your basket hold?

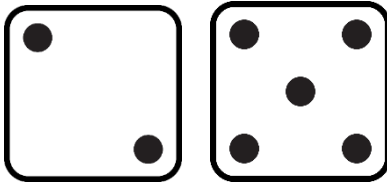
# MAKER STATION

## Make a board game.

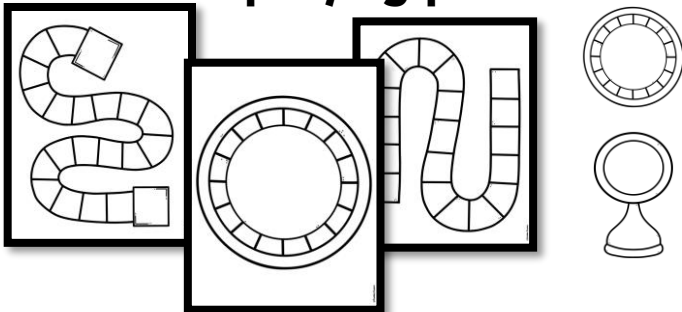


### MATERIALS

**dice**



**game boards  
and playing pieces**



**scissors and markers**

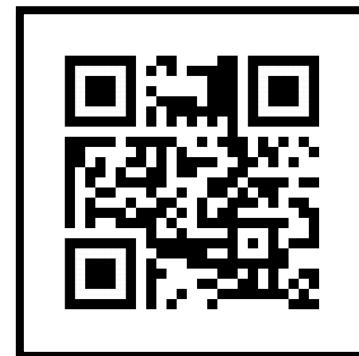


### RESOURCES

**BOARD GAME EXAMPLES**



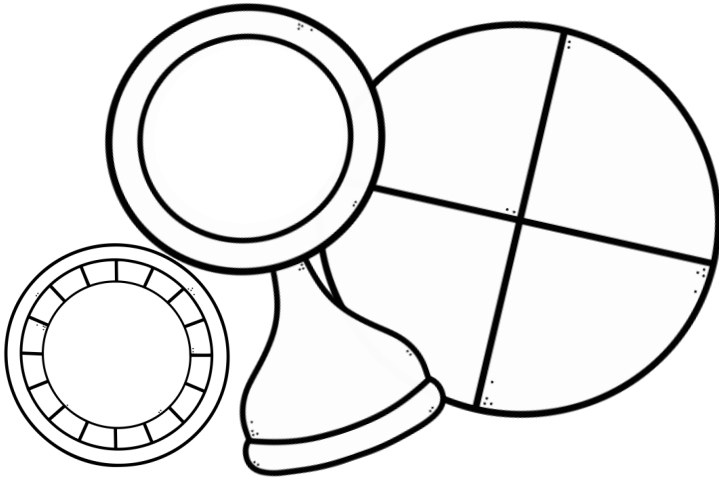
**MORE BOARD GAME EXAMPLES**



# BOARD GAME

## Maker Station Creation

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



**Game Title**

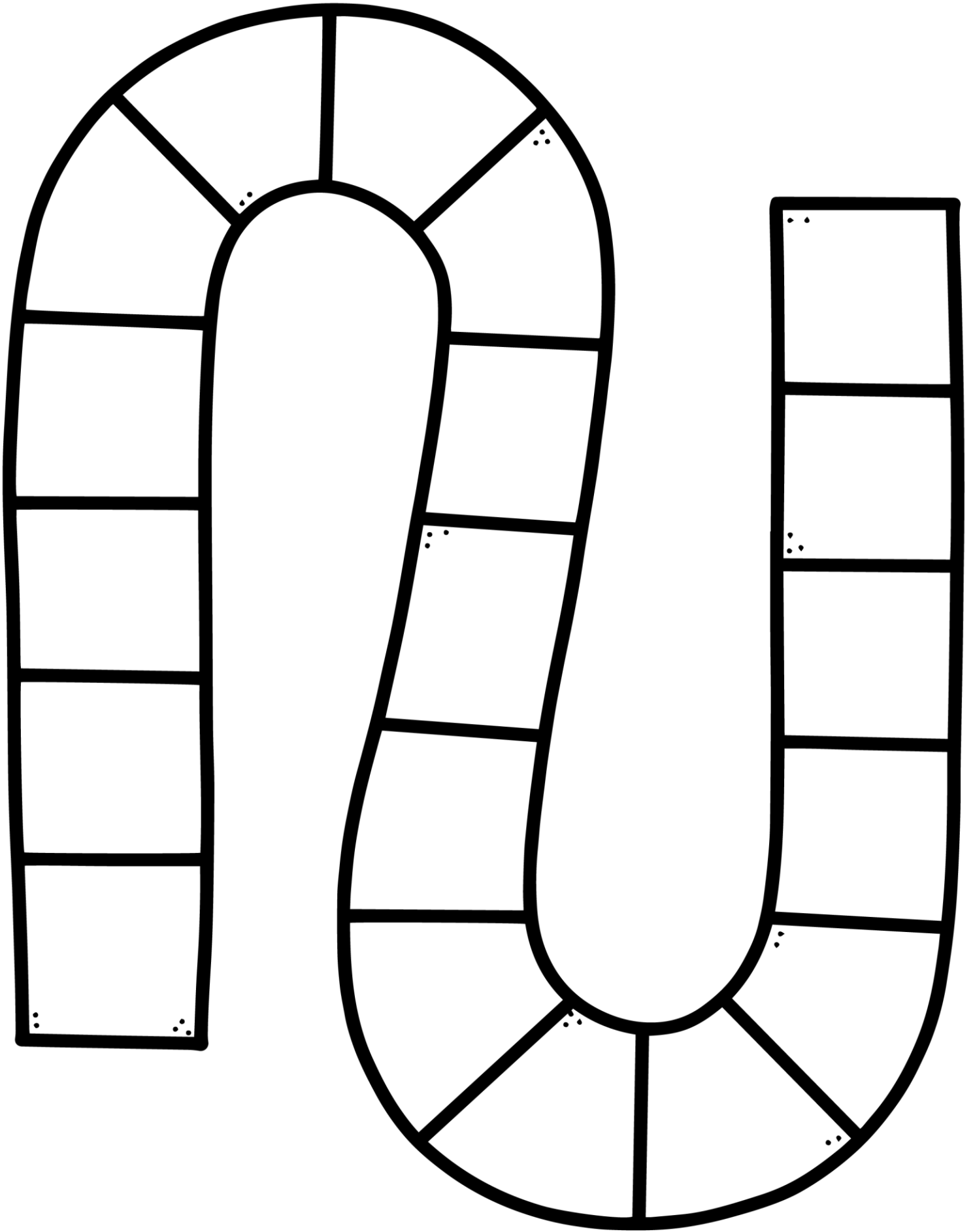
**Number of Players**

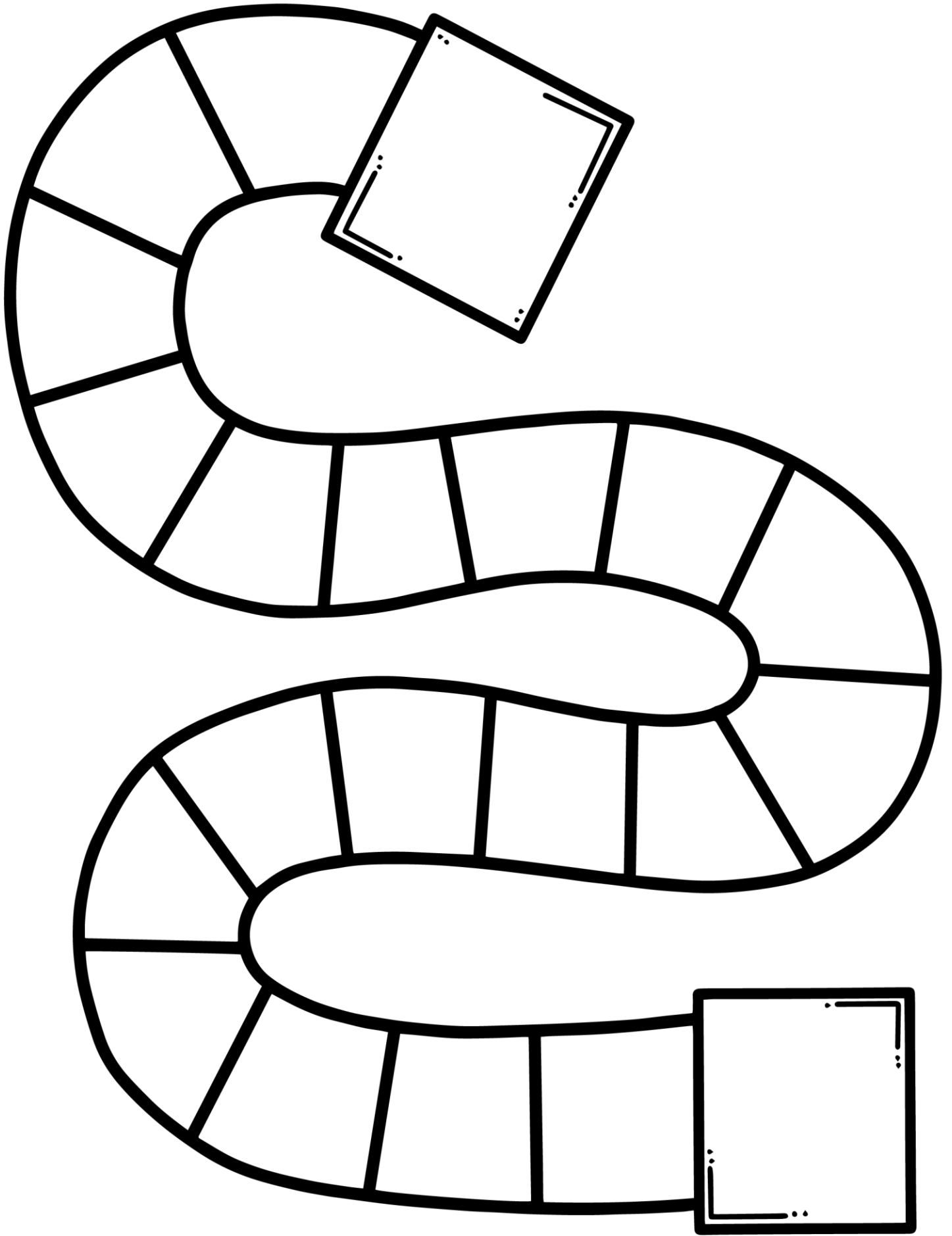
### HOW TO PLAY

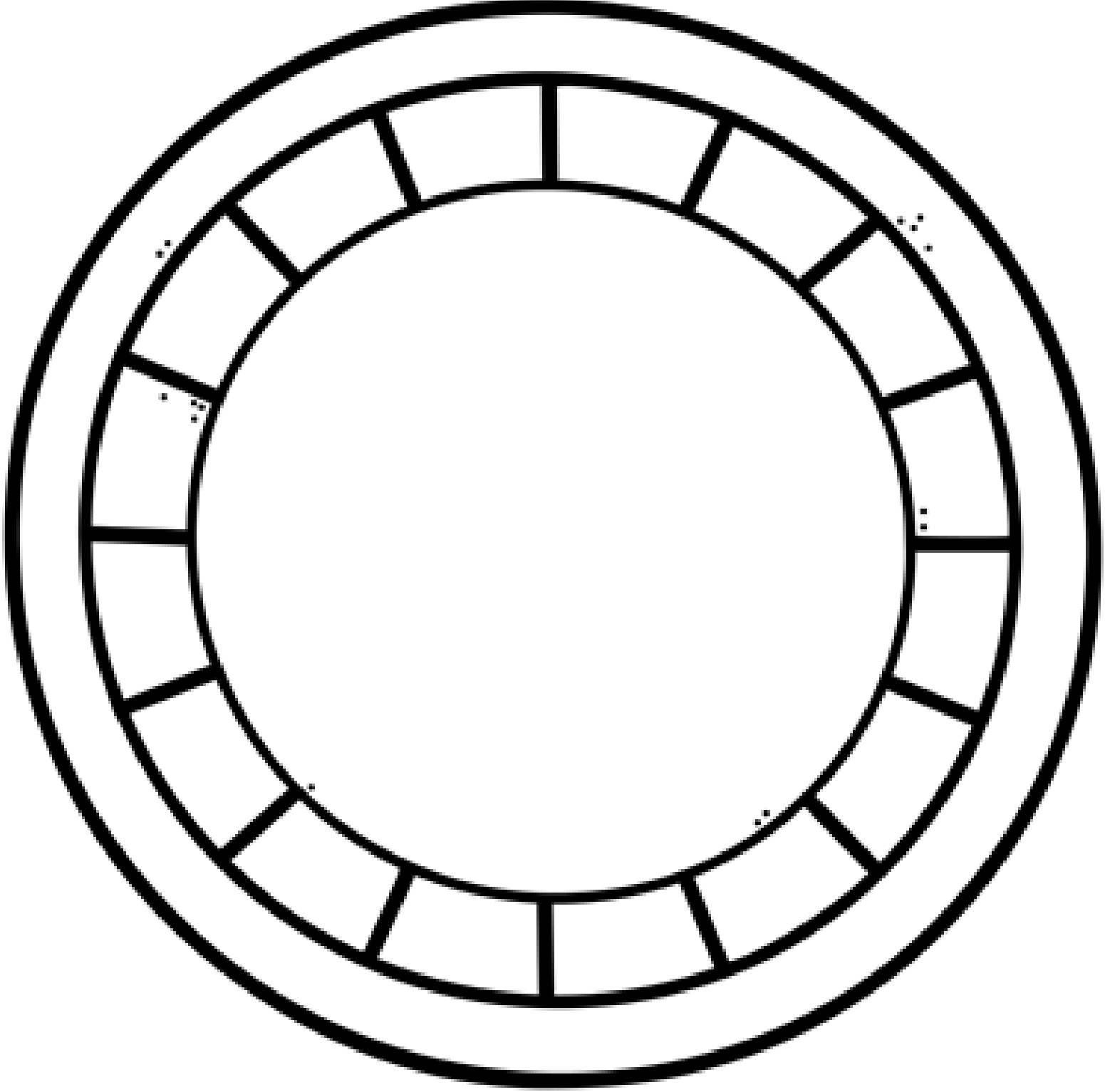
**FIRST**

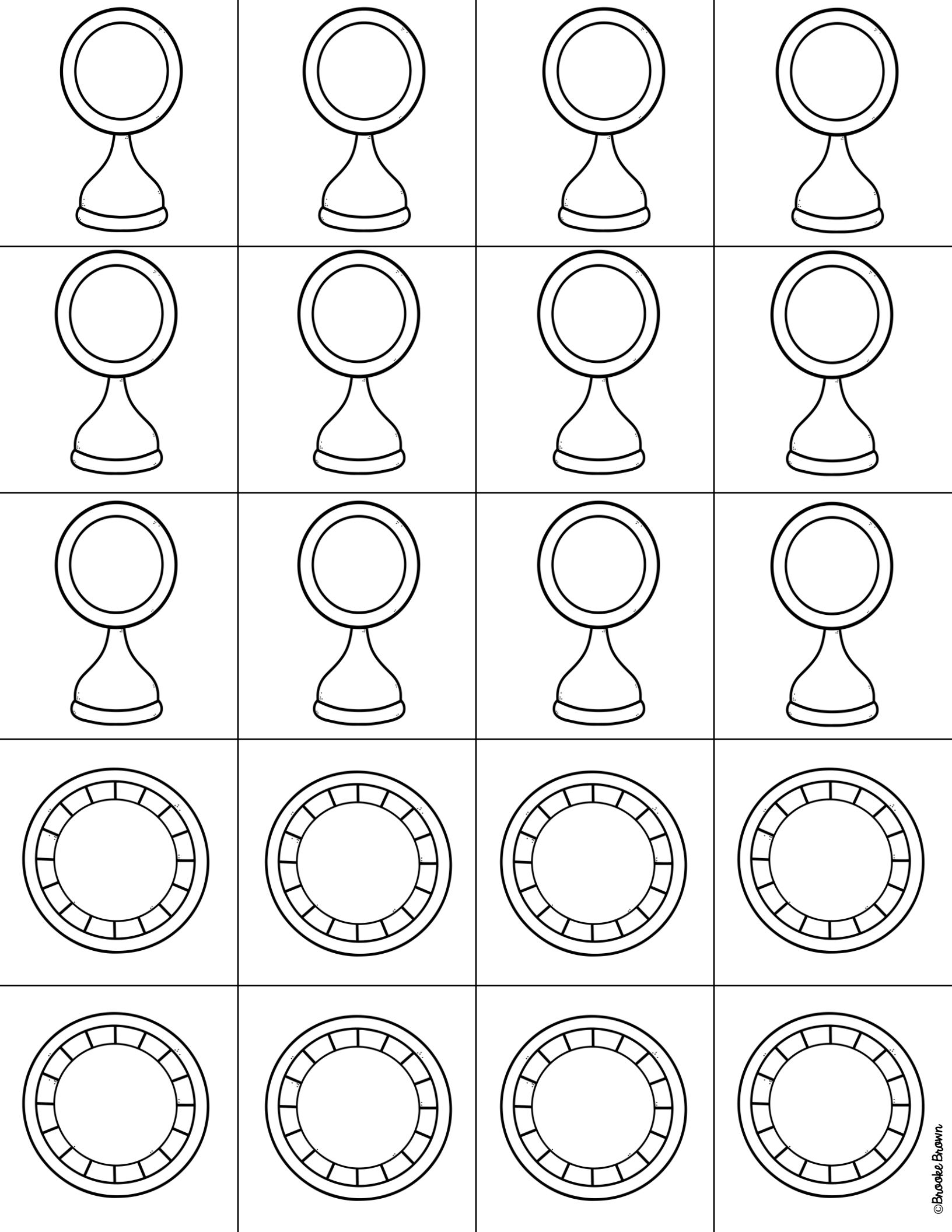
**NEXT**

**LAST**



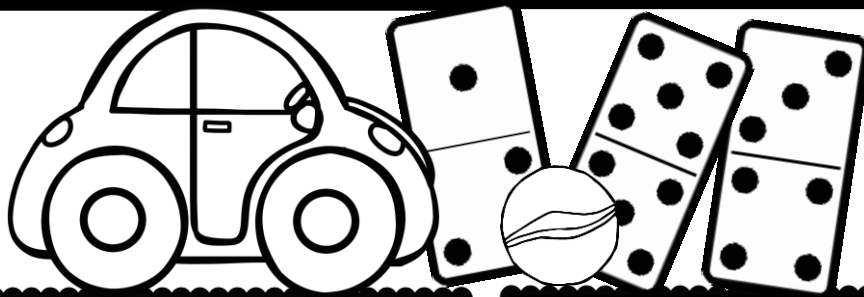




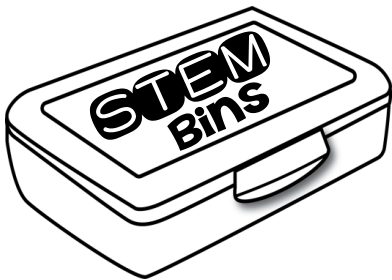


# MAKER STATION

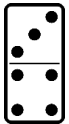
Make a  
chain reaction.



## MATERIAL OPTIONS



dominoes



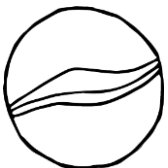
wooden  
planks



mini cups



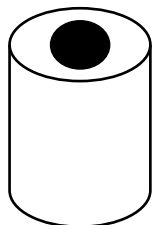
marbles



toy cars

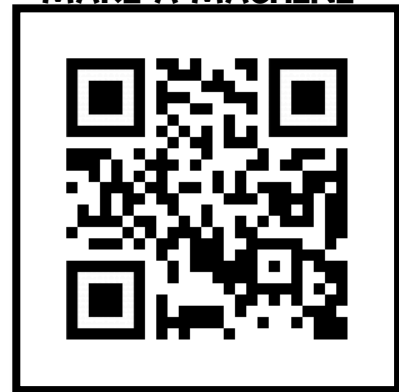


spools

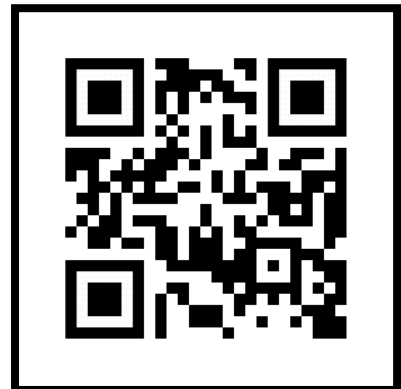


## RESOURCES

MAKE A MACHINE



RUBE GOLDBERG INVENTIONS





# CHAIN REACTION



Maker Station Creation



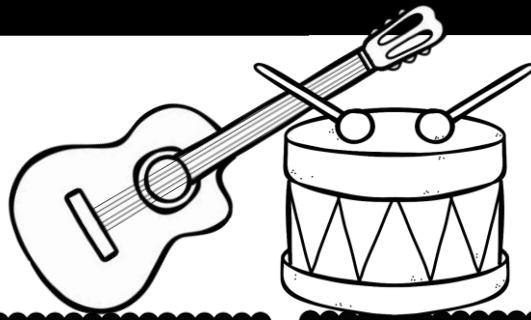
Name: \_\_\_\_\_

Draw your chain reaction in order.

1	2
3	4

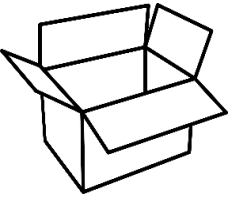
# MAKER STATION

## Make a musical instrument.



### MATERIAL OPTIONS

empty tissue boxes



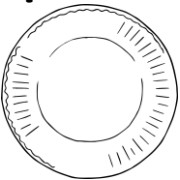
paper rolls



paper



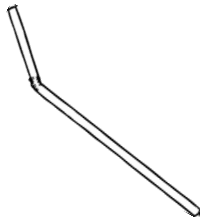
paper plates



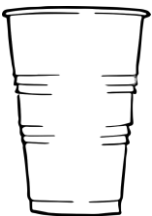
rubber bands



straws



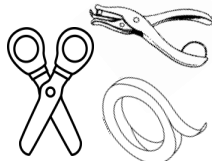
cups



dry beans or rice



hole puncher, scissors, and tape

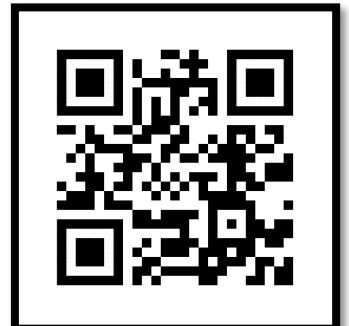


### RESOURCES

STRING INSTRUMENTS



PERCUSSION INSTRUMENTS



HOW-TO VIDEO PLAYLIST

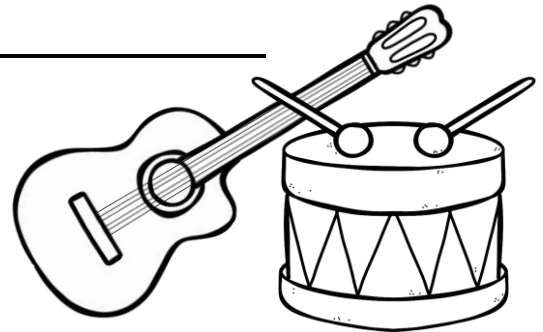
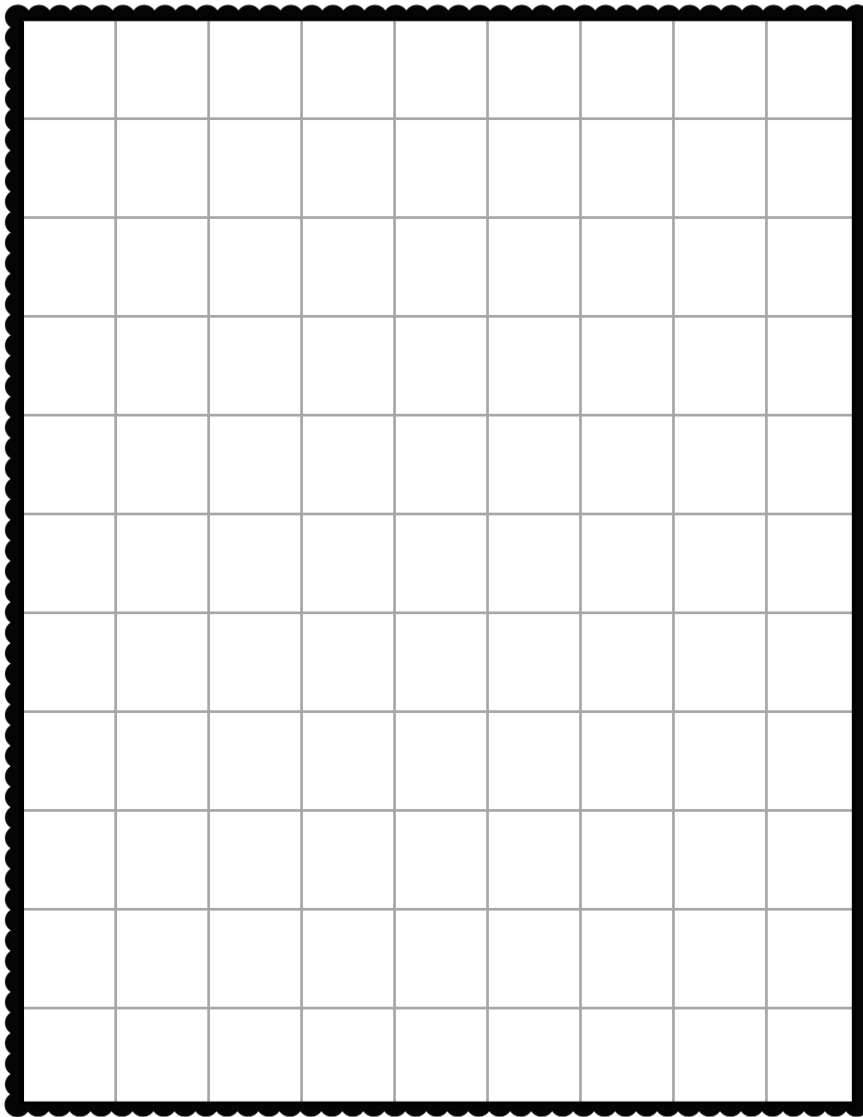


# MUSICAL INSTRUMENT

## Maker Station Creation

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

### Blueprint



Type of Instrument: \_\_\_\_\_

### MATERIALS

How does your instrument make sound?

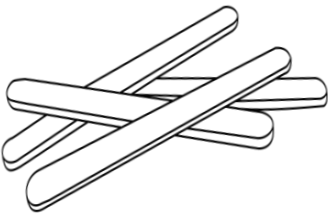
# MAKER STATION

Make a catapult  
to launch a  
pom pom.



## MATERIAL OPTIONS

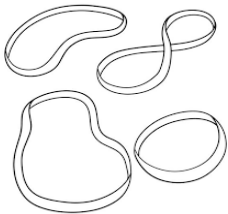
popsicle  
sticks



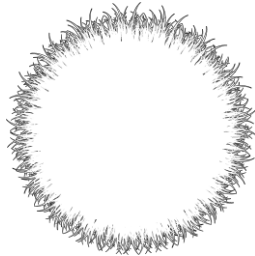
plastic  
spoons



rubber  
bands



pom poms



meter stick



## RESOURCES

SPOON CATAPULT



POPSICLE STICK CATAPULTS



# CATAPULT

## Maker Station Creation

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

### Blueprint



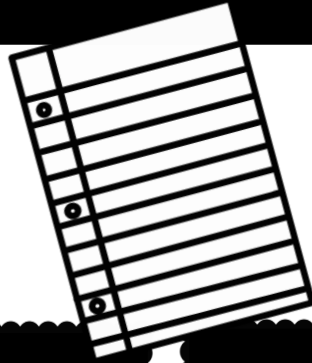

Type of Catapult: \_\_\_\_\_

### MATERIALS

<b>LAUNCH TESTS</b>	<b>TEST</b>	<b>How far did your pom pom go?</b>
	1	
	2	
	3	

# MAKER STATION

Make an origami creation.



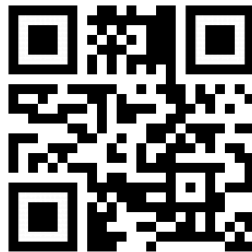
## MATERIALS

square paper



## RESOURCES

DOG



HEART



BOX



HOUSE

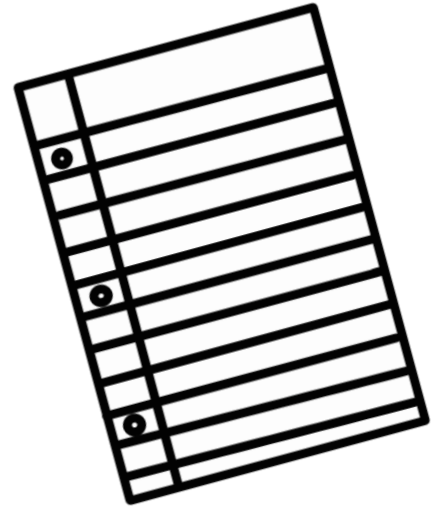
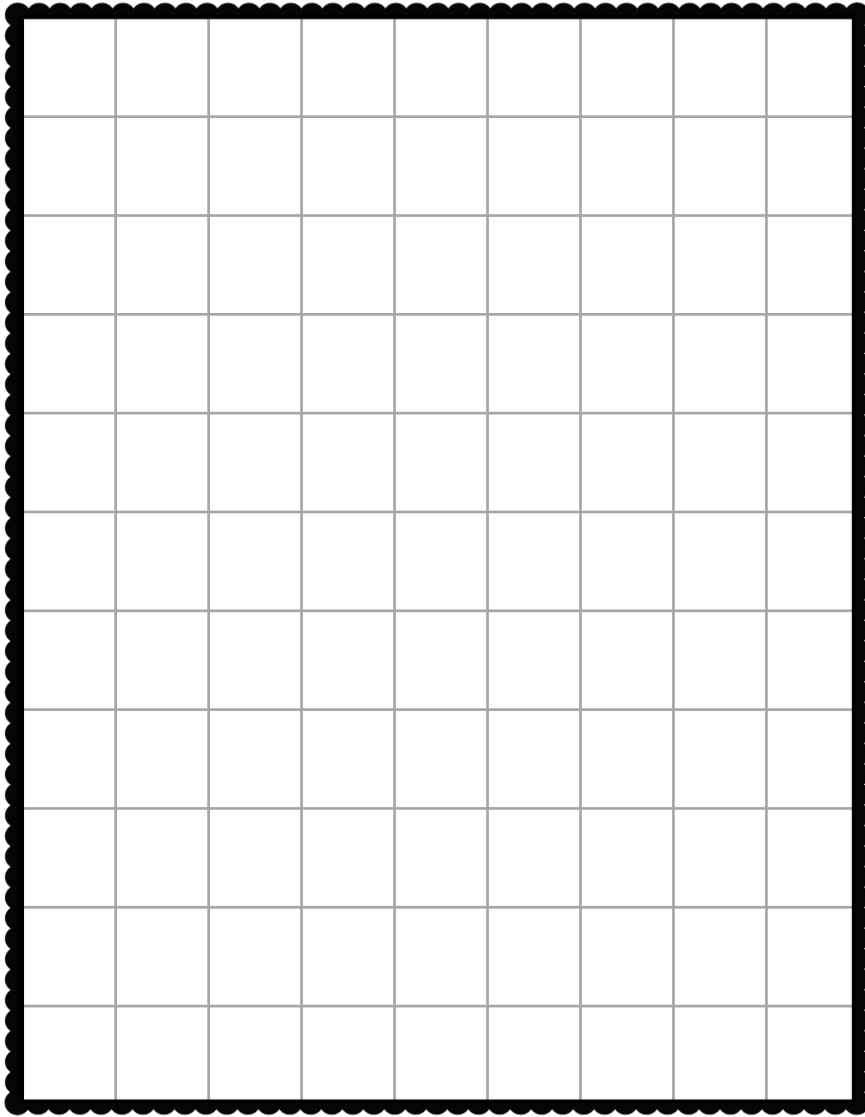


# ORIGAMI

## Maker Station Creation

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

**Blueprint**



**MATERIALS**

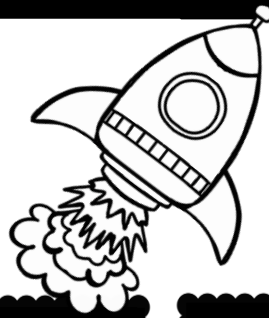
A rectangular box with a decorative, scalloped border, intended for listing materials. The word "MATERIALS" is printed at the top.

**What did you make?**

A large rectangular box with a decorative, scalloped border, intended for drawing or describing the origami creation.

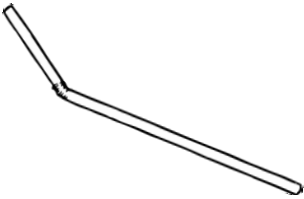
# MAKER STATION

## Make a straw rocket.



### MATERIAL OPTIONS

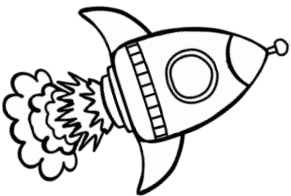
straws



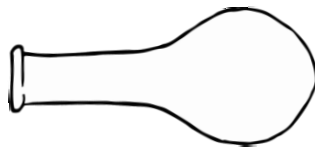
paper scraps



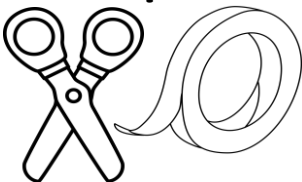
paper rockets



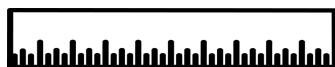
balloons



scissors and  
tape



meter stick

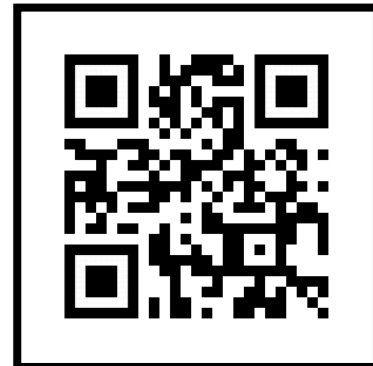


### RESOURCES

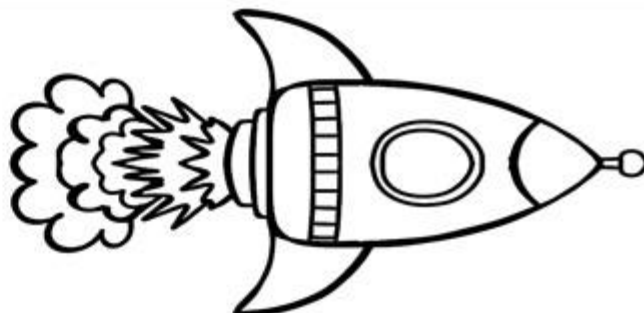
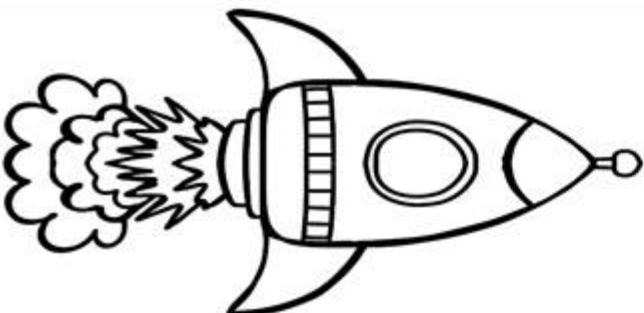
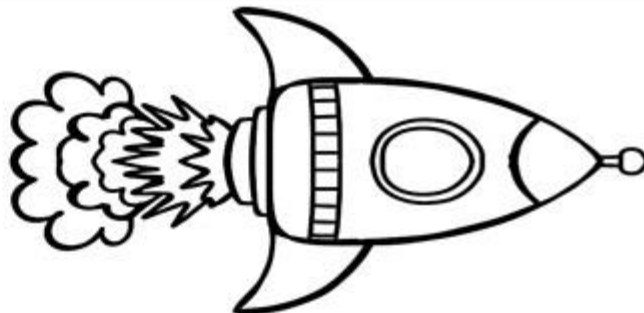
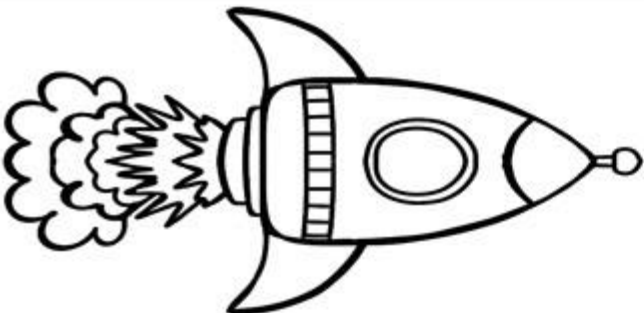
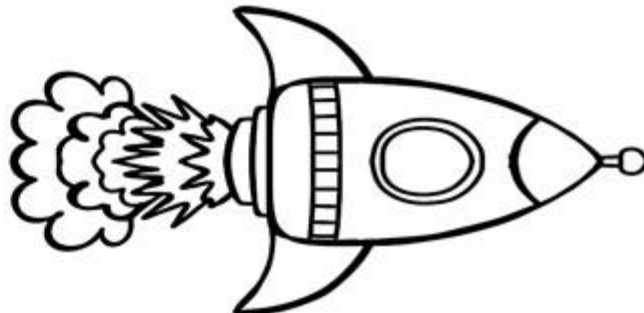
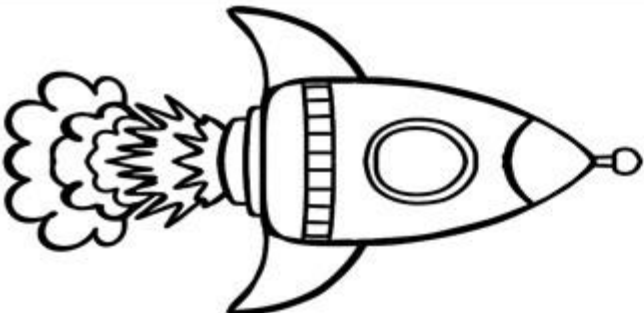
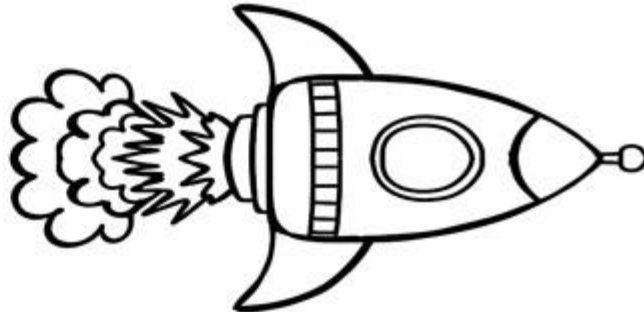
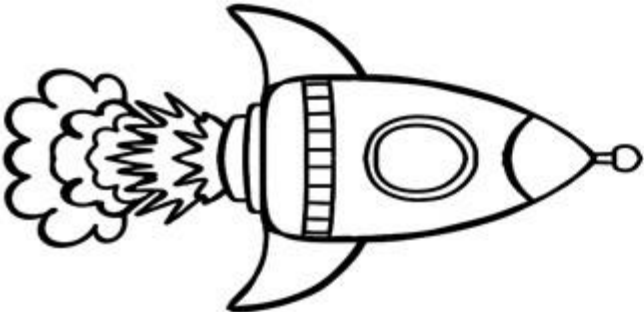
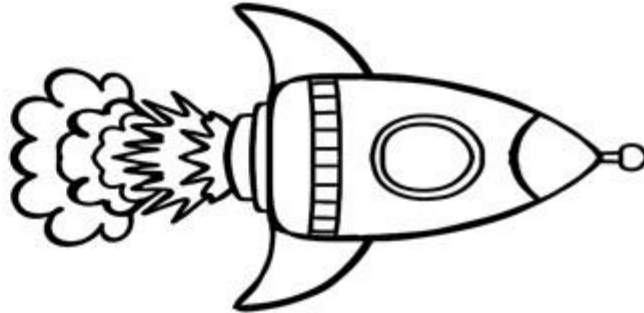
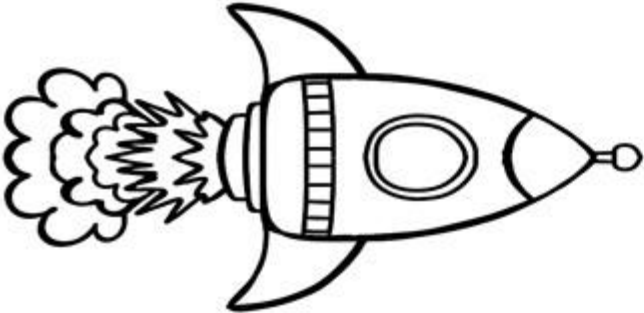
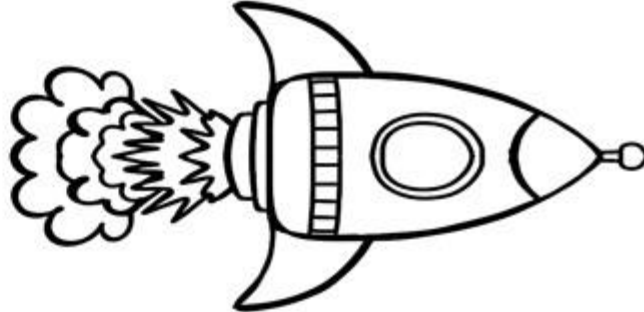
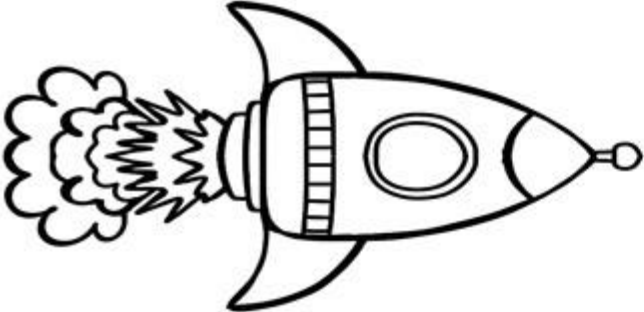
PAPER STRAW ROCKETS



BALLOON STRAW ROCKETS





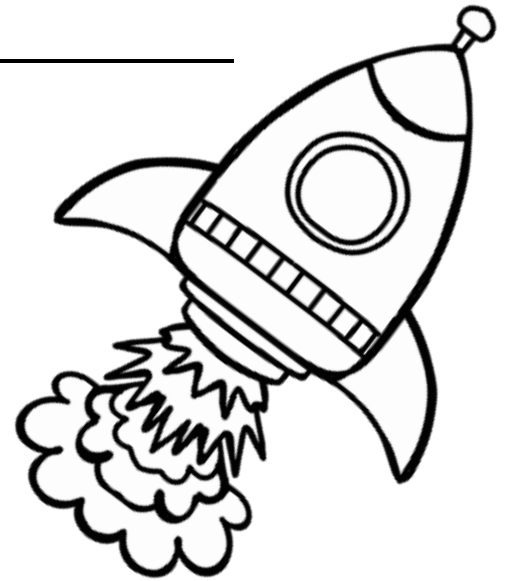
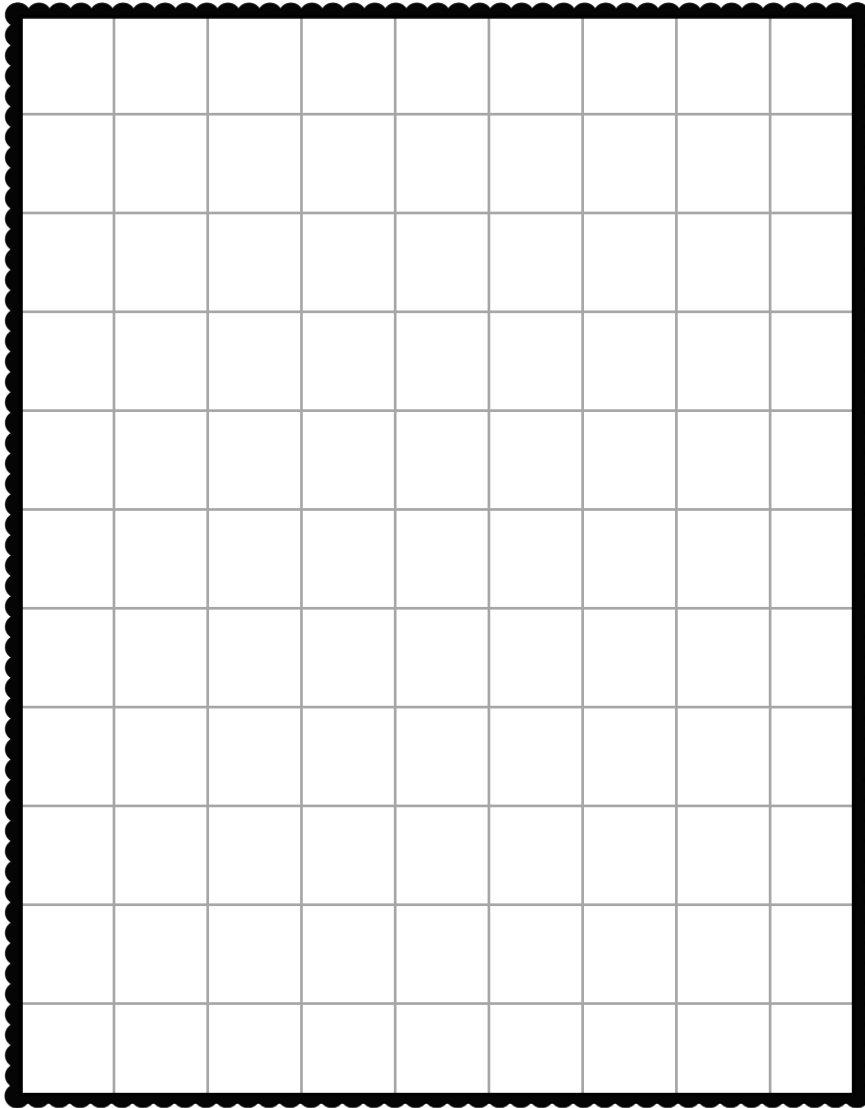


# STRAW ROCKET

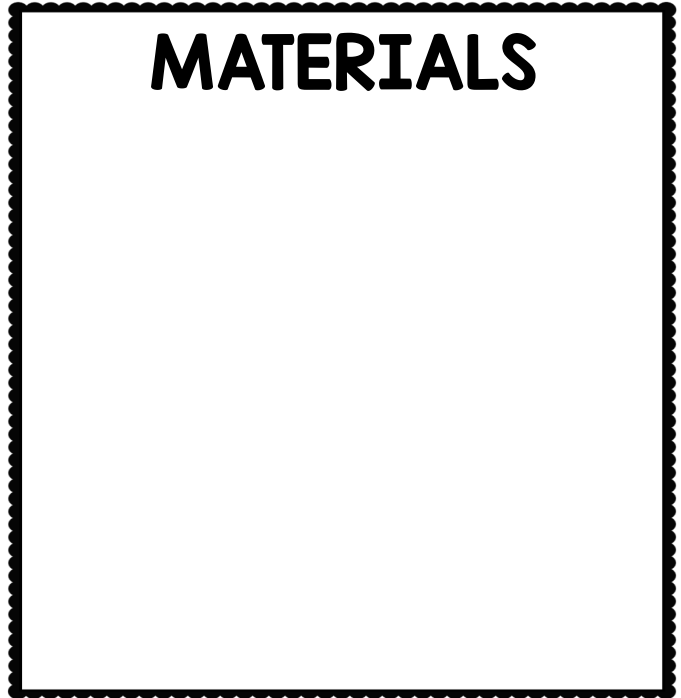
## Maker Station Creation

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

### Blueprint



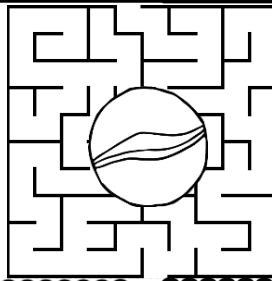
### MATERIALS



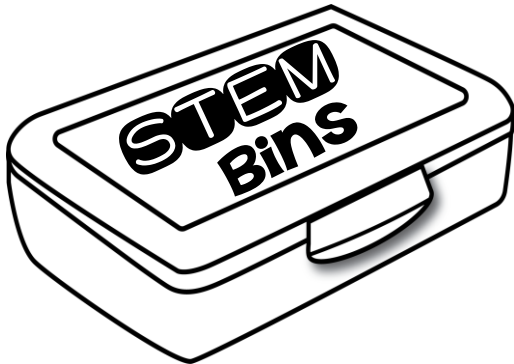
TEST	How far did it fly?
1	
2	
3	

# MAKER STATION

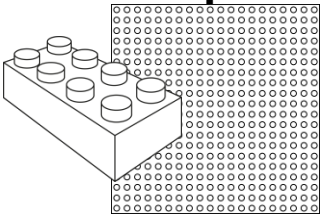
## Make a marble maze.



### MATERIAL OPTIONS



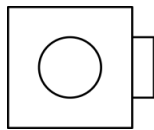
building bricks and baseplate



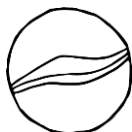
wooden planks



linking cubes



marbles



### RESOURCES

BUILDING BRICK MAZE



MAZE MAKER

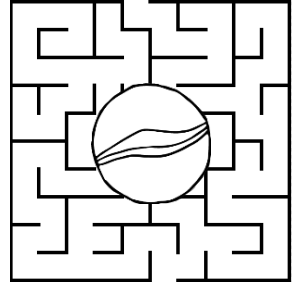
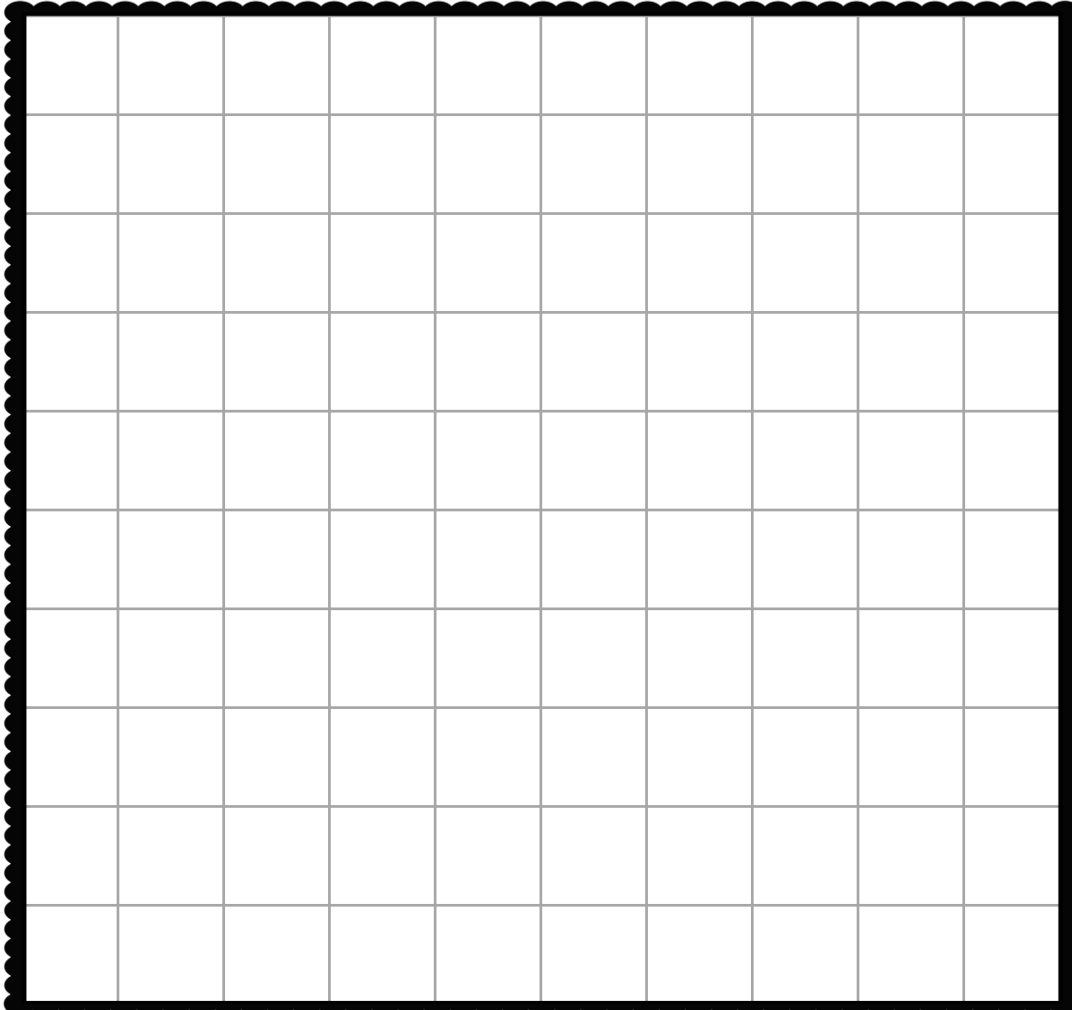


# MARBLE MAZE

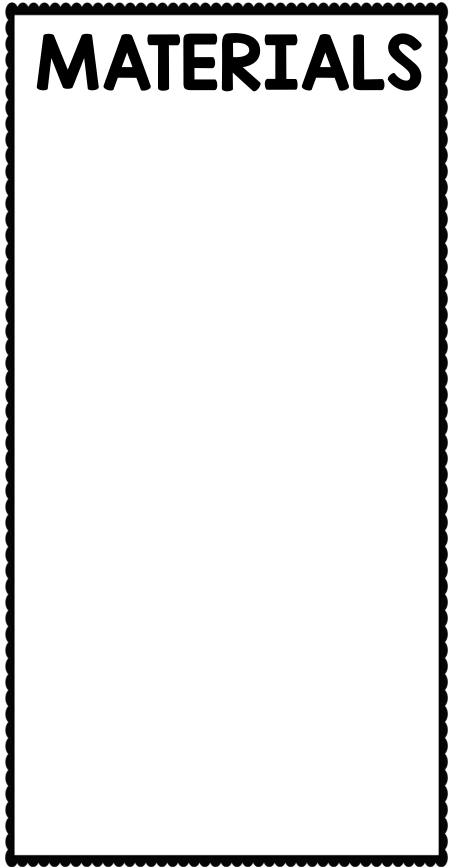
## Maker Station Creation

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

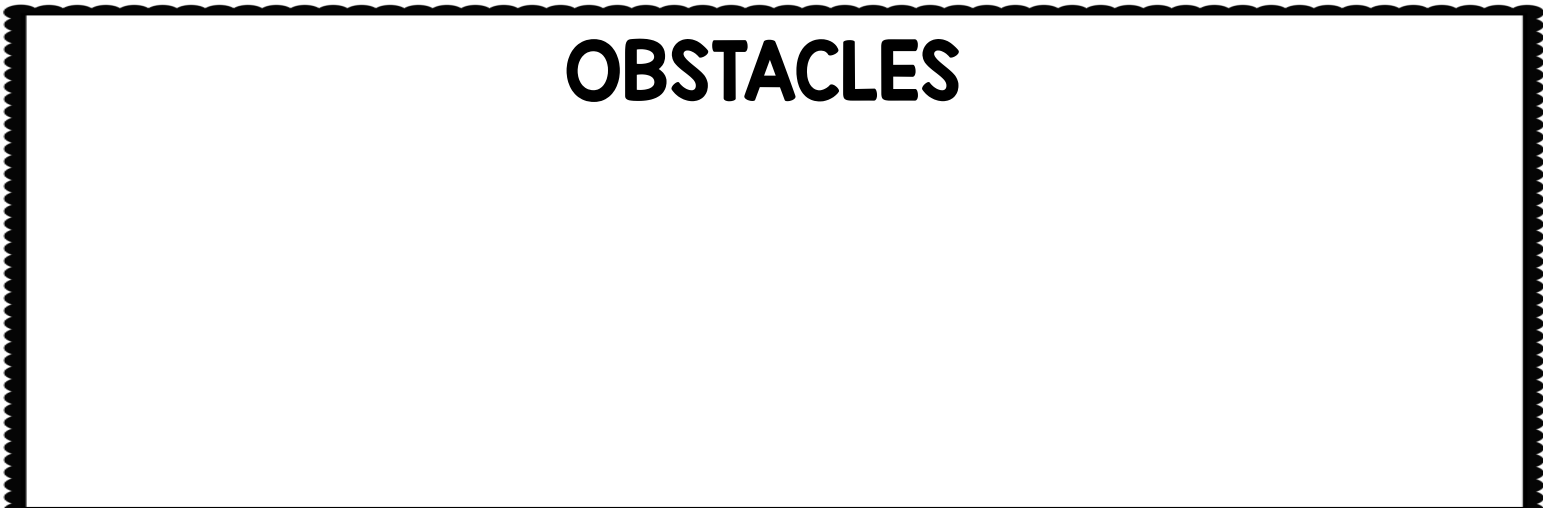
### Blueprint



### MATERIALS



### OBSTACLES



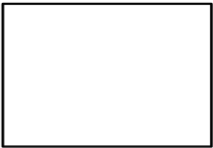
# MAKER STATION

Make something  
useful  
out of trash.

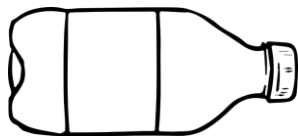


## MATERIAL OPTIONS

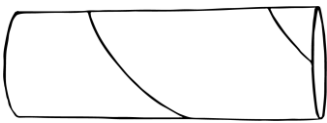
paper



plastic bottles



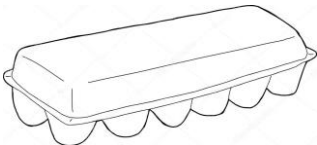
paper rolls



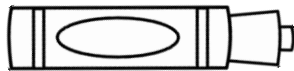
bottle caps



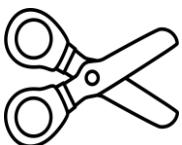
egg cartons



markers



scissors



tape



## RESOURCES

PAPER ROLL CREATIONS



PLASTIC BOTTLE CREATIONS



# TRASH TO TREASURE

## Maker Station Creation

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

**Blueprint**



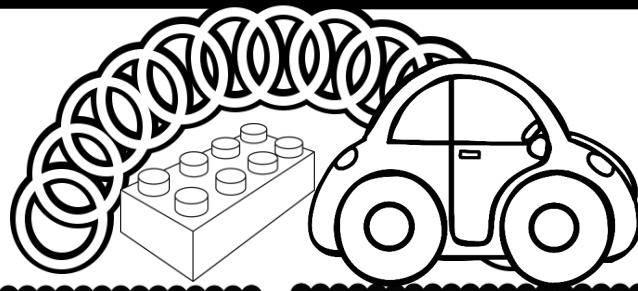

**What I Made:**

**MATERIALS**

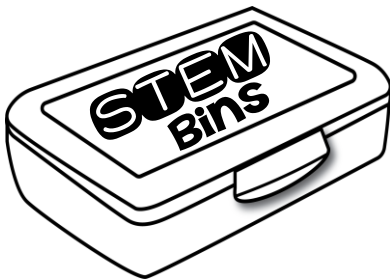
**HOW IT IS USEFUL**

# MAKER STATION

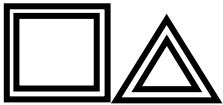
## Make a toy.



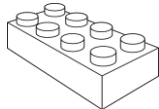
### MATERIAL OPTIONS



magnetic blocks



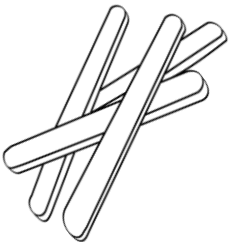
building bricks



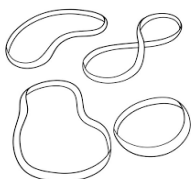
pipe cleaners



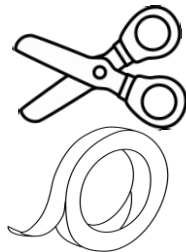
popsicle sticks



rubber bands



scissors and tape



### RESOURCES

DIY TOYS



TOP 100 TOYS

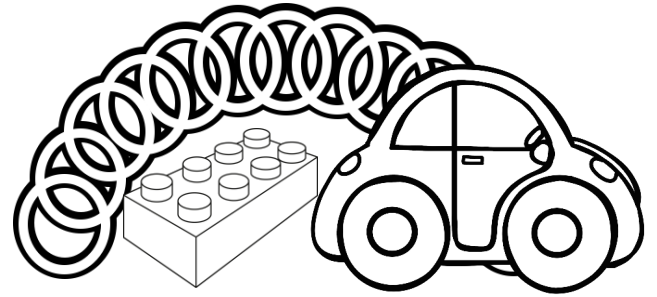


# TOY

## Maker Station Creation

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

**Blueprint**

**MATERIALS**

**How does your toy work?**

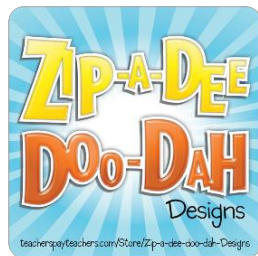


# CREDITS



Thank you for your purchase!

Created by Brooke Brown



<http://www.teacherspayteachers.com/Store/Zip-a-dee-doo-dah-Designs>

