3 WEEKS OF MAKER STATIONS

MAKER STATION
Make a chain reaction.

MATERIAL OPTIONS
- dominoes
- chicken broth
- mini cups
- spools

RESOURCES
- MAKE A MAYO

CREATED BY BROOKE BROWN
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COMPONENTS

Instruction Cards with supply lists and QR Code Resources for students

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

Student Planning and Reflection Sheets

BOX
Maker Station Creation
Name: ____________________________

Blueprint

MATERIALS

How many pennies does your box hold?

What else can your box hold?

 pennies

Optional App Extensions

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
- Draw & Tell
  Add a photo of your creation as the background and add stickers, then 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.
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.
Make a paper airplane that flies.

**MATERIALS**
- paper
- meter stick

**RESOURCES**
- MAKE A PAPER AIRPLANE
- FOLD N FLY
# Paper Airplane Flight Tests

**Blueprint**

```
______________________
```

## Materials

## Flight Tests

<table>
<thead>
<tr>
<th>Test</th>
<th>How far did it fly?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
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<tr>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Make a rolling vehicle.

**MATERIAL OPTIONS**

**CARDBOARD VEHICLE**
- paper rolls
- paper fasteners
- cardboard circles
- hole puncher
- scissors

**MINI CUP VEHICLE**
- mini cups
- straws
- toothpicks
- tape and scissors
- foam balls or playdough

**RESOURCES**

**CARDBOARD VEHICLE**
- [QR Code]

**MINI CUP VEHICLE**
- [QR Code]
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

© Brooke Brown
Name: ____________________

Blueprint

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How many pennies does your box hold?

_______ pennies

What else can your box hold?

MATERIALS

---
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.
Make a bridge that holds pennies.

MATERIAL OPTIONS
- building bricks
- wooden planks
- straws and pipe cleaners
- pennies

RESOURCES

STRONG BRIDGES

TYPES OF BRIDGES
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

Did your mini figure land safely?

What else can your basket hold?

YES  NO
MAKER STATION

Make a board game.

MATERIALS

- dice
- game boards and playing pieces
- scissors and markers

RESOURCES

- BOARD GAME EXAMPLES
- MORE BOARD GAME EXAMPLES

© Brooke Brown
# BOARD GAME
Maker Station Creation

Name: ____________________

## HOW TO PLAY

<table>
<thead>
<tr>
<th></th>
<th>_</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST</strong></td>
<td>_</td>
</tr>
<tr>
<td><strong>NEXT</strong></td>
<td>_</td>
</tr>
<tr>
<td><strong>LAST</strong></td>
<td>_</td>
</tr>
</tbody>
</table>

### Game Title

#### Number of Players

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MAKER STATION

Make a chain reaction.

MATERIAL OPTIONS
- dominoes
- wooden planks
- mini cups
- marbles
- toy cars
- spools

RESOURCES

MAKE A MACHINE
- RUBE GOLDBERG INVENTIONS
Name: ____________________

Draw your chain reaction in order.

1  

2  

3  

4
Make a musical instrument.

**MATERIAL OPTIONS**
- empty tissue boxes
- paper rolls
- paper plates
- rubber bands
- straws
- cups
- dry beans or rice
- hole puncher, scissors, and tape

**RESOURCES**

**STRING INSTRUMENTS**

**PERCUSSION INSTRUMENTS**

**HOW-TO VIDEO PLAYLIST**

© Brooke Brown
MUSICAL INSTRUMENT
Maker Station Creation

Name: _____________________

Blueprint

Type of Instrument:

MATERIALS

How does your instrument make sound?
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

<table>
<thead>
<tr>
<th>TEST</th>
<th>How far did your pom pom go?</th>
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<td>1</td>
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MAKER STATION

Make an origami creation.

MATERIALS
square paper

RESOURCES
DOG
HEART
BOX
HOUSE

©Brooke Brown
MATERIALS

What did you make?
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

© Brooke Brown
STRAW ROCKET
Maker Station Creation

Name: __________________

Blueprint

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MAKER STATION

Make a marble maze.

MATERIAL OPTIONS

- building bricks and baseplate
- linking cubes
- wooden planks
- marbles

RESOURCES

- BUILDING BRICK MAZE
- MAZE MAKER
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
Make a toy.

**MATERIAL OPTIONS**
- magnetic blocks
- building bricks
- pipe cleaners
- popsicle sticks
- rubber bands
- scissors and tape

**RESOURCES**
- DIY TOYS
- TOP 100 TOYS
Name: ____________________

Blueprint

MATERIALS

How does your toy work?
Thank you for your purchase!

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