How to Use

The following STEM Center materials can be applied within any elementary classroom. You may choose to have students work in the STEM Center independently, with partners, or in small groups. You simply need to provide the construction materials of your choice as well as challenge instructions and time limit. Center expectations, planning sheet and writing extensions are included, You might also choose to keep a camera or iPad in this center so that students can take photos of their finished creations.

Contents

STEM center

STEM center Expectations

1. Use only the provided materials.
2. Try to complete the challenge within _____ minutes.
3. Write about your plans and answer reflection questions when your challenge is complete.
4. Maintain an appropriate noise level.
5. Think like an inventor and HAVE FUN!

STEM center

The Challenge

What You May Use

STEM Challenge Ideas

bridge
toy
parachute
house/dwelling
building/tower
boat
ramp
rocket
vehicle
trap
habitat
maze
game
tool
musical instrument
catapult

STEM Construction Materials

Legos
K'nex blocks
Magformers blocks
unifix cubes
base ten blocks
dominoes
Any building manipulative
paper goods
popsicle sticks
rubber bands
pipe cleaners
toilet paper rolls
tissue boxes
plastic bottles
toothpicks
Play Dough

STEM center

Name:_____

What is the challenge?

What materials can you use?

How could you improve your project?

What was your favorite part of the challenge?

My Blueprint

What went well?

What was most challenging?

Step by Step

Cut out the flipbook along the outside box and cut apart the flaps on the solid lines.

Fold the flipbook in half.

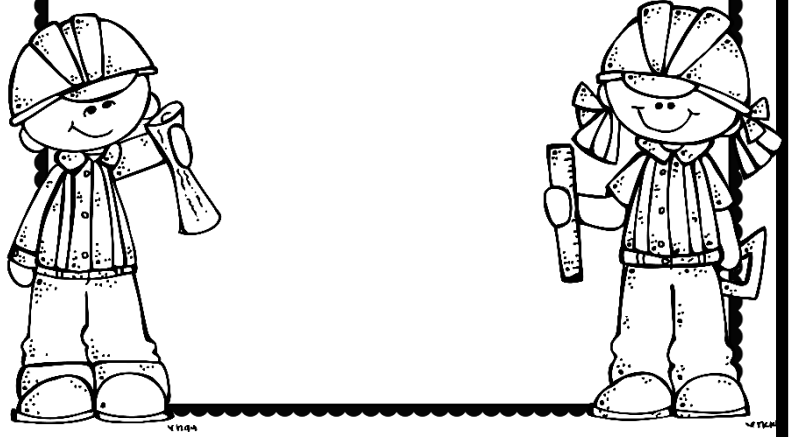
Write the materials and 5 directions for how to build your creation underneath the flaps.

On the back of the flipbook, illustrate your creation.

How to Build

_____

_____



Name:_____

How to Build:

Materials

First

Next

Then

After That

Finally

Step by Step:
How to Build

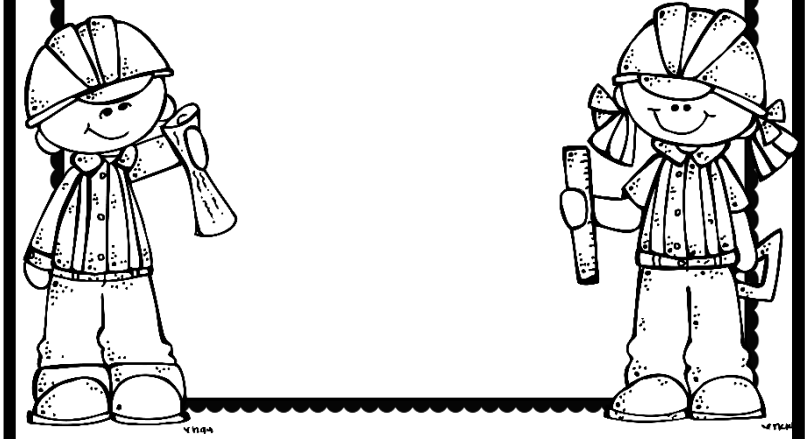
By:_____

Friendly Letter

Cut out the flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the flipbook in half.
Write ideas for your friendly letter underneath each flap.
On the back of the flipbook, illustrate your STEM project.

Friendly Letter

_____



Name:_____

Friendly Letter:_____

Who I'm Writing to

What I Created

How I Created it

How it Works

My Favorite Part

Friendly Letter

_____

Date

Dear _____,

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Closing _____,

Signature _____

Imagine it!

Cut out the flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the flipbook in half.
Write the story elements for an imaginative story underneath each flap.
Your STEM creation must be included within one or more of the story elements.
On the back of the flipbook, illustrate the beginning, middle, and end of your story.

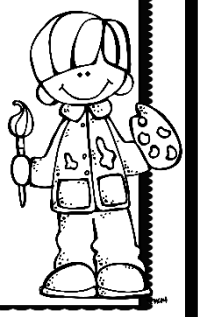
Imagine it!

_____

(Story Title)

BEGINNING

MIDDLE



END

Name:_____

Imagine it!: _____

Characters

Setting

Problem

Turning Point

Solution

Imagine it!

By:_____

Credits

Created by Brooke Brown

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Like this product? You'll LOVE my other STEM products!

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