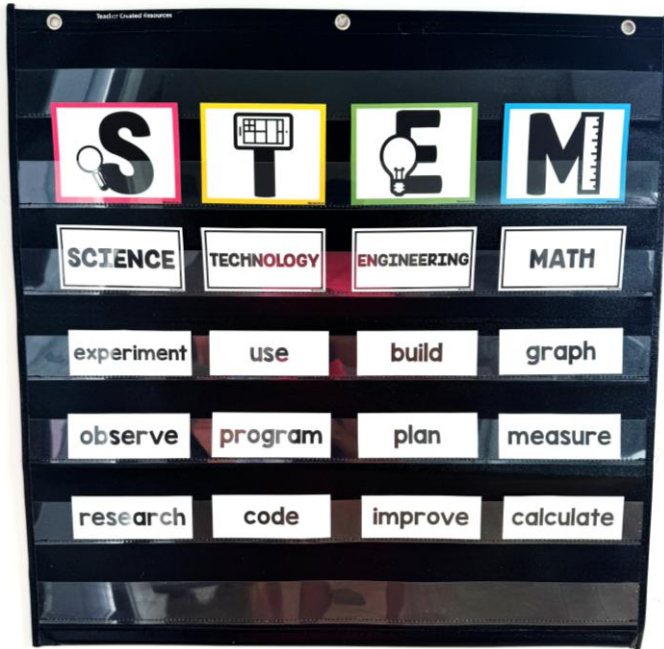


INTRODUCING STEM + BACK TO SCHOOL ACTIVITIES

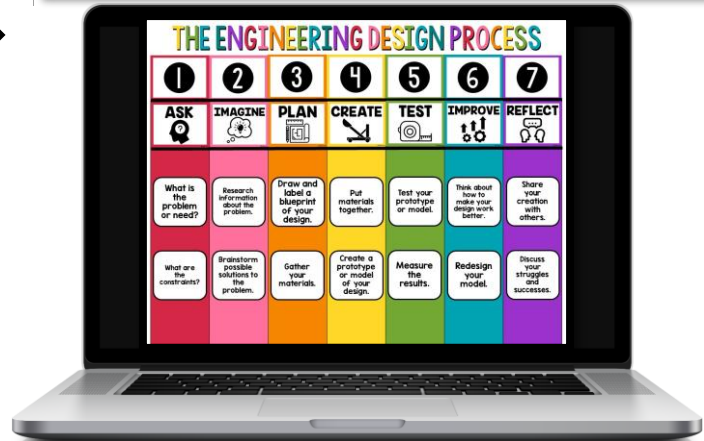
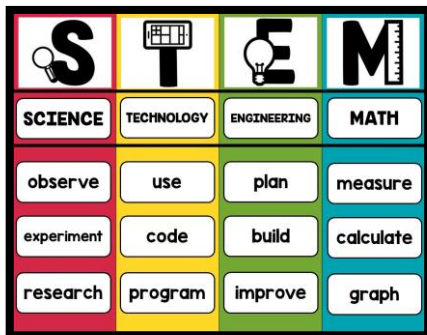


CREATED BY BROOKE BROWN

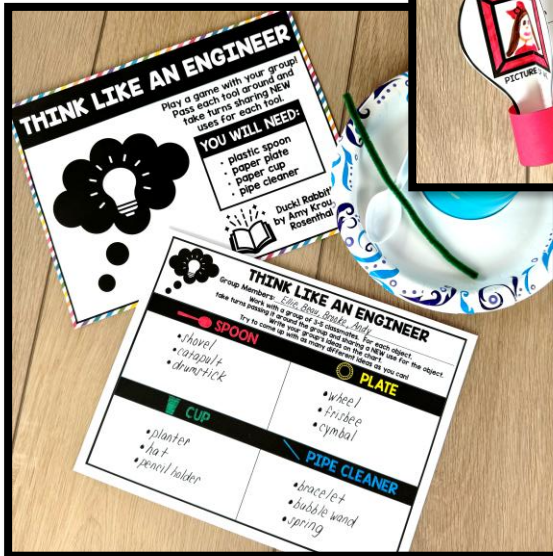
INTRODUCING STEM/STEAM & THE ENGINEERING DESIGN PROCESS



INTERACTIVE GOOGLE SLIDES



8 BOOKS + MAKER ACTIVITIES



8 BOOKS + MAKER ACTIVITIES



8 BOOKS + MAKER ACTIVITIES

LIGHTBULB MOMENT



Create a 3D paper lightbulb to help you set goals for the year.

YOU WILL NEED:

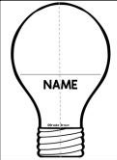
- lightbulb template
- paper strip
- crayons or markers
- glue stick

WHO DO YOU HOPE TO BE THIS YEAR?



Think about who you ARE and who you hope to BE this year. Write your answers on your lightbulbs.

• engineer • artist
• builder • leader
• technician • friend
• mathematician • maker
• writer • helper
• reader • scientist



NAME

PICTURE OF ME

I AM A

I HOPE TO BE A

MAKER MINDSET



Work with your group and use the materials in your baggie to create a useful tool or toy.

YOU WILL NEED:

- Large baggie with 10-15 craft supplies such as:
 - paper
 - tape
 - markers
 - clips
 - rubber bands
 - pipe cleaners
 - pop-it sticks
 - linking cubes
 - base ten blocks
 - mini cups

Collaboration Station by Shannon Olsen

MAKER MINDSET

Group Members: _____

Work with a group of 3-5 classmates. Use the materials in your baggie to create a useful tool or toy.

OUR BLUEPRINT

OUR IDEAS

CREATION STATIONS



Explore, build, and play with STEM Bins! What can you create?

YOU WILL NEED:

- Variety of STEM Bins such as:
 - pattern blocks
 - building bricks
 - base ten blocks
 - dominoes
 - linking cubes
 - mini cups

Dreaming Up by Kristi Hale

GENIUS GIZMO



Work with a partner. Use the "Makers' Junk" to design an invention that solves a problem.

YOU WILL NEED:

- paper "Makers' Junk" planning template
- blueprint template
- advertisement template
- scissors & glue sticks
- crayons or markers

What Do You Do With an Idea? by Kobi Yamada

THINK LIKE AN ENGINEER



Play a game with your group! Pass each tool around and take turns sharing NEW uses for each tool.

YOU WILL NEED:

- plastic spoon
- paper plate
- paper cup
- pipe cleaner

Duck! Rabbit! by Amy Krouse Rosenthal

WHAT CAN YOU BUILD?

 HOUSE	 BRIDGE	 CAR
 TUNNEL	 TOWER	 CASTLE
 BOAT	 MAZE	 RAMP

CREATION STATIONS

Name: _____

Draw pictures of your creations.

This is a _____
I built with _____

This is a _____
I built with _____

This is a _____
I built with _____

This is a _____
I built with _____

GENIUS GIZMO

Names: _____

Work with a partner. Use the "Makers' Junk" to design an invention that solves a problem.

INVENTION

THINK LIKE AN ENGINEER

Group Members: _____

Work with a group of 3-5 classmates. For each object, take turns passing it around the group and sharing NEW use for the object. Write your group's ideas on the chart. Try to come up with as many different ideas as you can!

PLATE

PIPE CLEANER

TEAM TOWER



Work with your group to build the tallest tower possible using index cards and tape.

You will have _____ minutes to complete this challenge.

YOU WILL NEED:

- 40 index cards per group
- tape or address labels
- ruler

Too Tall Houses by Gianna Marino

HELPFUL HEADWEAR



Use paper and tape to create a useful hat.

YOU WILL NEED:

- construction paper
- tape

Very Good Hats by Emma Straub

MINI MUSEUM

Name: _____

Draw pictures of your sculptures.

I made a _____ because _____	I made a _____ because _____
I made a _____ because _____	I made a _____ because _____

SCULPTING IDEAS



- Favorite animal
- Favorite food
- Favorite sport or game
- Favorite school subject
- Favorite number
- Family members

TEAM TOWER

Group Members: _____

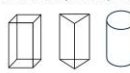
Work with a group of 3-5 classmates. Use index cards and tape to build the tallest possible tower.

OUR BLUEPRINT

How tall was your final tower?

What building strategy worked best?

Color the 3D solids you used in your tower.



HELPFUL HEADWEAR

Name: _____

Use construction paper and tape to make a useful hat.

BLUEPRINT

HAT IDEAS

What kind of hat did you make?

How is your hat helpful?

STEM/STEAM POSTERS

