3rd grade

THEMED STEM SQUARES

Student Choice Boards

IMAGINE DESIGN CREATE

Dear Families,

Today your child will bring home their first Themed STEM SQUARES sheet. These student choice boards encourage children to have a choice in the tasks that they complete.

These tasks encourage creative problem solving and critical thinking skills. It is not expected that children produce a 'perfect' result. Instead, creations that have been well thought out and where each feature of the design can be identified and explained are highly regarded.

Children can use any materials on hand to complete these tasks. Using old plastic bottles, newspaper and cardboard are a good start.
The tasks are kept open-ended to allow students to fulfill their innovative and creative potential.

When asking to design something we do not expect actual size. For example if asked to make a hang glider, a small/miniature version is suitable.

In some cases it may not be possible to bring the design into school. In this situation please take a photo or video to show.

If you have further questions please ask your child's teacher

Regards

Ms. Franklin

STEM SQUARES Transportation

Student Choice Board

Name: _____

Build a ramp for cars	Engineer a zip line to deliver a parcel	Create a balloon powered boat
Build a flying machine	**FREE CHOICE** 	Design a truck and trailer
Create an airplane that can carry something small	Build a model of a bulldozer	Create a working parachute to deliver a package

STEM SQUARES School

Student Choice Board

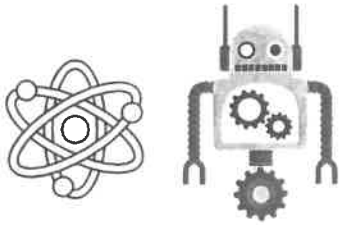
Name: _____

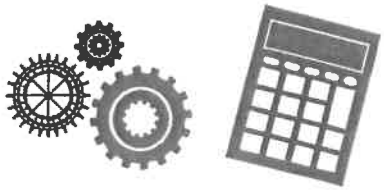
Create a treasure map for your school	Design something to make a teachers job easier	Build a case that can hold all your pencils and markers
Design a way to deliver a secret note to a friend	**FREE**  **CHOICE**	Create a model of your classroom
Design a new sign for your school (be creative)	Create a map of your classroom	Build a school bus

NAME: DATE:

STEM SHAPES

STUDENT CHOICE BOARD REFLECTION





What materials did you use?

What did you enjoy most about this task?

RATE THIS TASK (CIRCLE ONE)

NOT GREAT 1 2 3 4 5 THE BEST

Chose one of these to complete:

Write a creative story about your design.

Write an informational text about your design

Give a step-by-step explanation of how you completed your task (procedural text)

Take photos of each step of your task and write a short explanation under each photo.

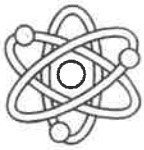
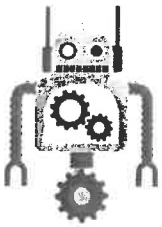
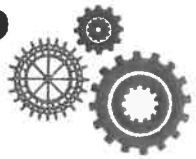
Create a short movie about your design.

NAME:

DATE:

STEM SHAPES

STUDENT CHOICE BOARD REFLECTION


S cience is the study of the physical and natural world around us, through experiments and observations.

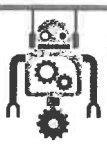
T echnology is the machinery and devices developed from scientific knowledge.

E ngineering is the process of using knowledge and principles to design, build, and analyze objects.

M athematics is the study of numbers, equations, functions, and shapes and their relationships.

Which disciplines of STEM did you use in your chosen task?
Explain how you applied that discipline.

SCIENCE



TECHNOLOGY

ENGINEERING

MATHEMATICS