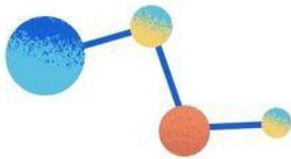
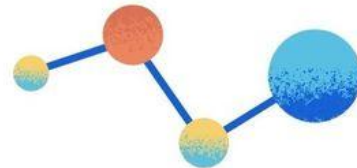
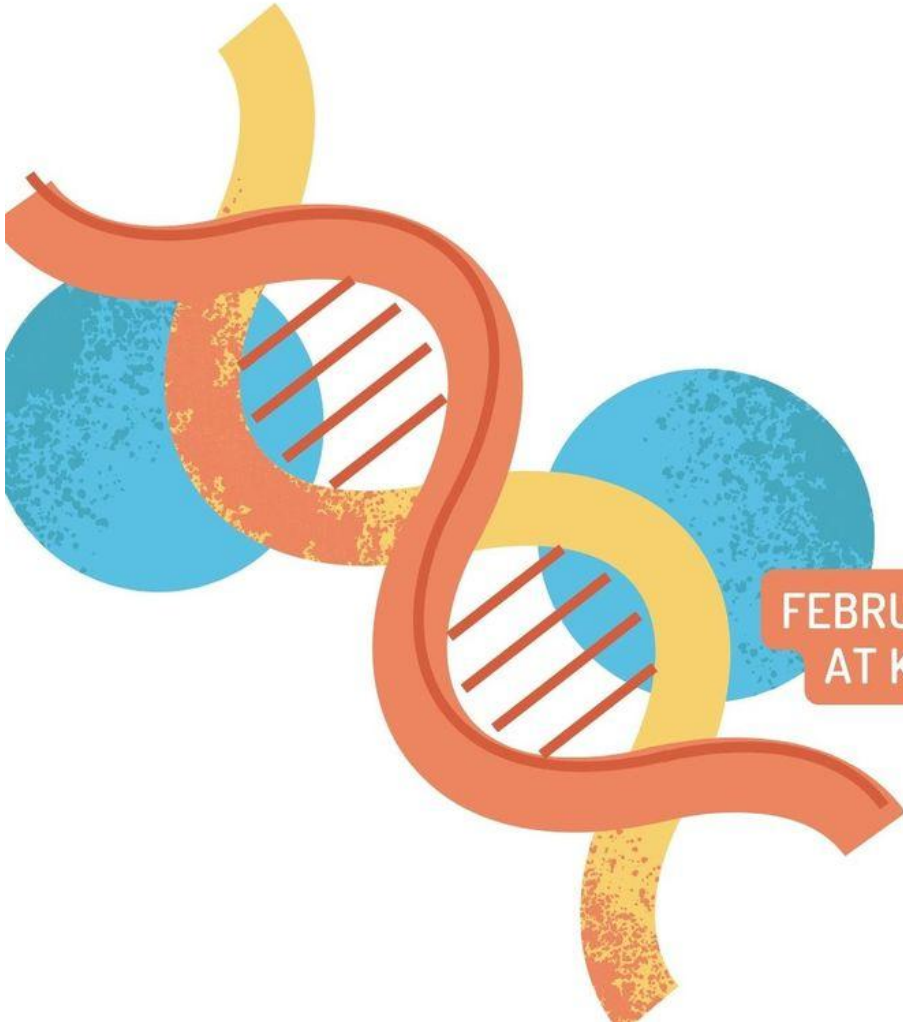


KINGS LOCAL SCHOOL DISTRICT  
ELEMENTARY

# STEAM SHOWCASE



## APPLICATION PACKET



FEBRUARY 23, 2023 6:30-8:00 PM  
AT KINGS MILLS ELEMENTARY  
SCHOOL

## What is a STEAM Showcase?

A STEAM Showcase is an opportunity for your child to be involved in the STEAM process. Through a STEAM Experiment or a STEAM Challenge, students will engage in the Scientific Process by asking a question or will engage in the Engineering Design Process as they try to find a solution to a problem.

Each experiment or challenge does not have to involve every aspect of STEAM, but should incorporate at least two areas. For example, their science experiment may be : “Which detergent is the best for getting out grass stains?” In this experiment, students could include the cost of each detergent, which would connect science and math. They could also graph their data, which would once again incorporate math, but could also include technology if the graph is made on a computer.

## What is the difference between a STEAM Experiment and a STEAM Challenge?

A STEAM Experiment is based on the Scientific Process. As students go through the Scientific Process they will investigate and study how things work.

A STEAM Challenge is based on the Engineering Design Process. Just like engineers, as students go through the Engineering Design Process, they will design and create new products to solve a problem.

Some projects may involve both the scientific process and the engineering design process. That is okay! However, if your goal is to design a new product, game, toy, or tool, then you should follow the Engineering Design Process.

## Individual or Small Group Participation Registration

Student Name(s) \_\_\_\_\_

Grade: \_\_\_\_\_

School: \_\_\_\_\_

Title of Project: \_\_\_\_\_

Adult Mentor: \_\_\_\_\_

\*Can be from home or school

Student Signature: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

Adult Mentor Signature: \_\_\_\_\_

\*Please return this form to your homeroom teacher by February 10, 2023 in order to register for the STEAM Showcase.



# 1. ASK

What question or problem will you be trying to solve? Use words or draw a picture to illustrate your question or problem.

---

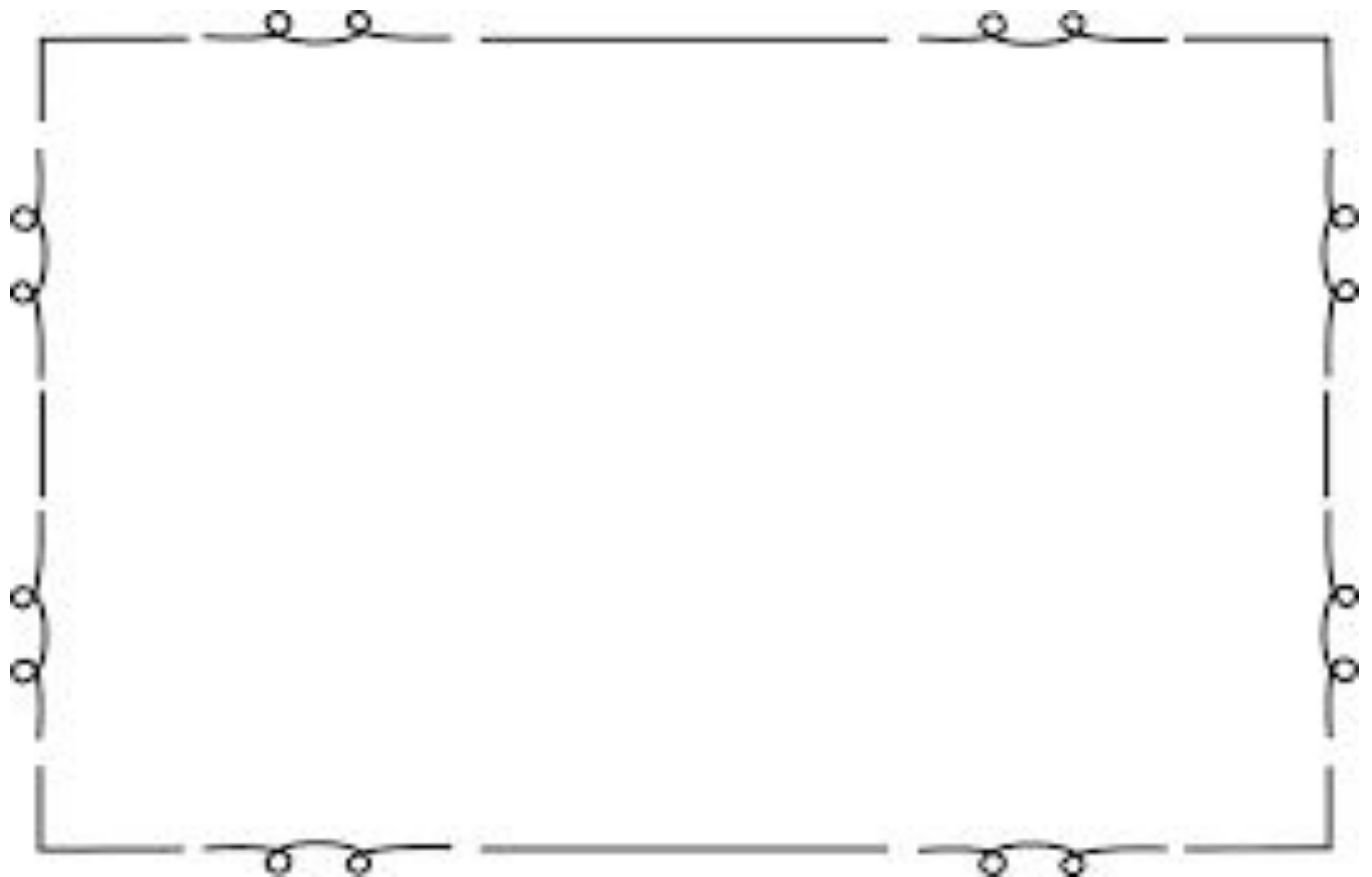
---

---

---

---

---



## 2. HYPOTHESIZE/IMAGINE

What do you think will happen?

I think

\_\_\_\_\_

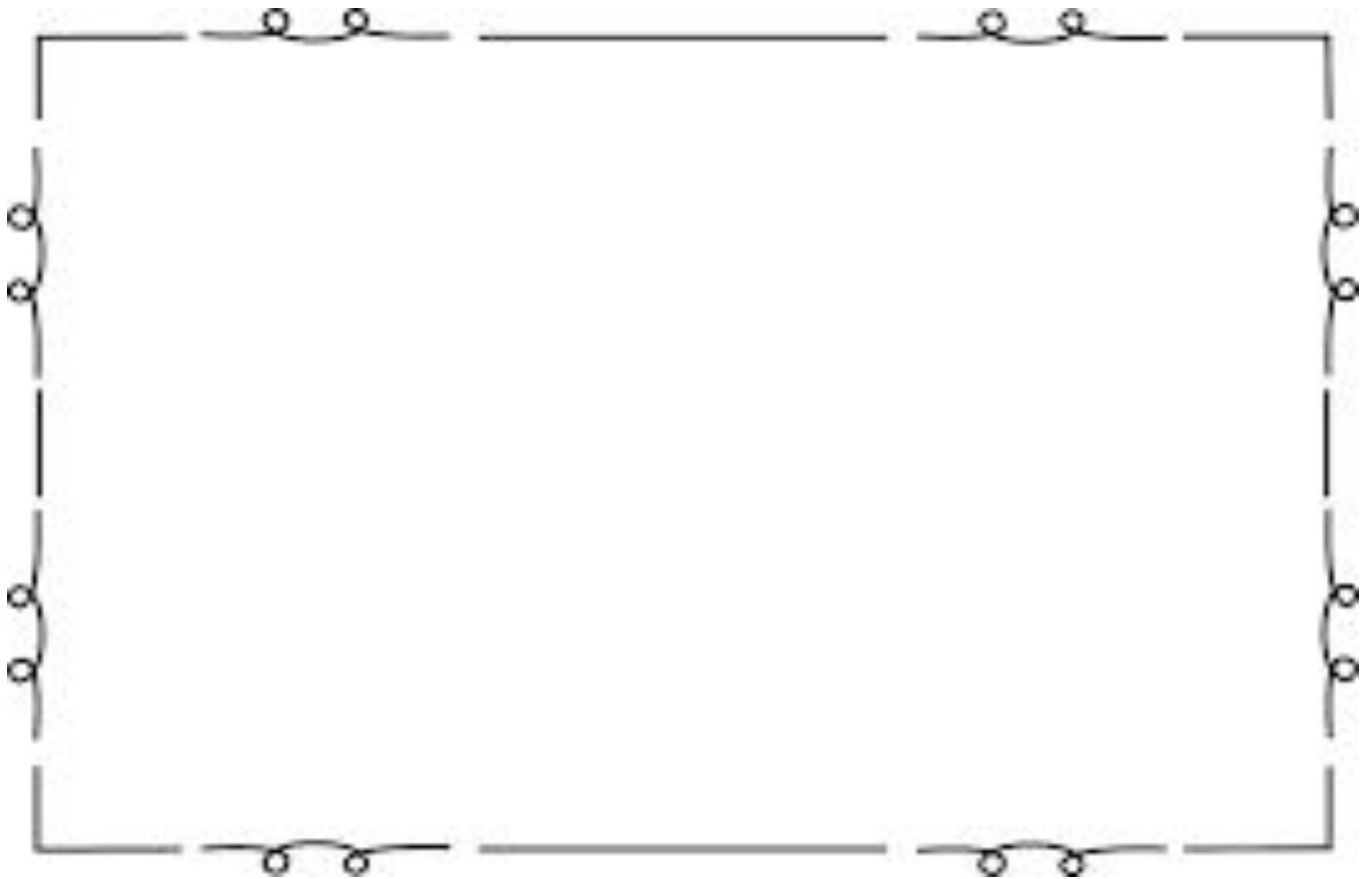
\_\_\_\_\_

because \_\_\_\_\_

\_\_\_\_\_

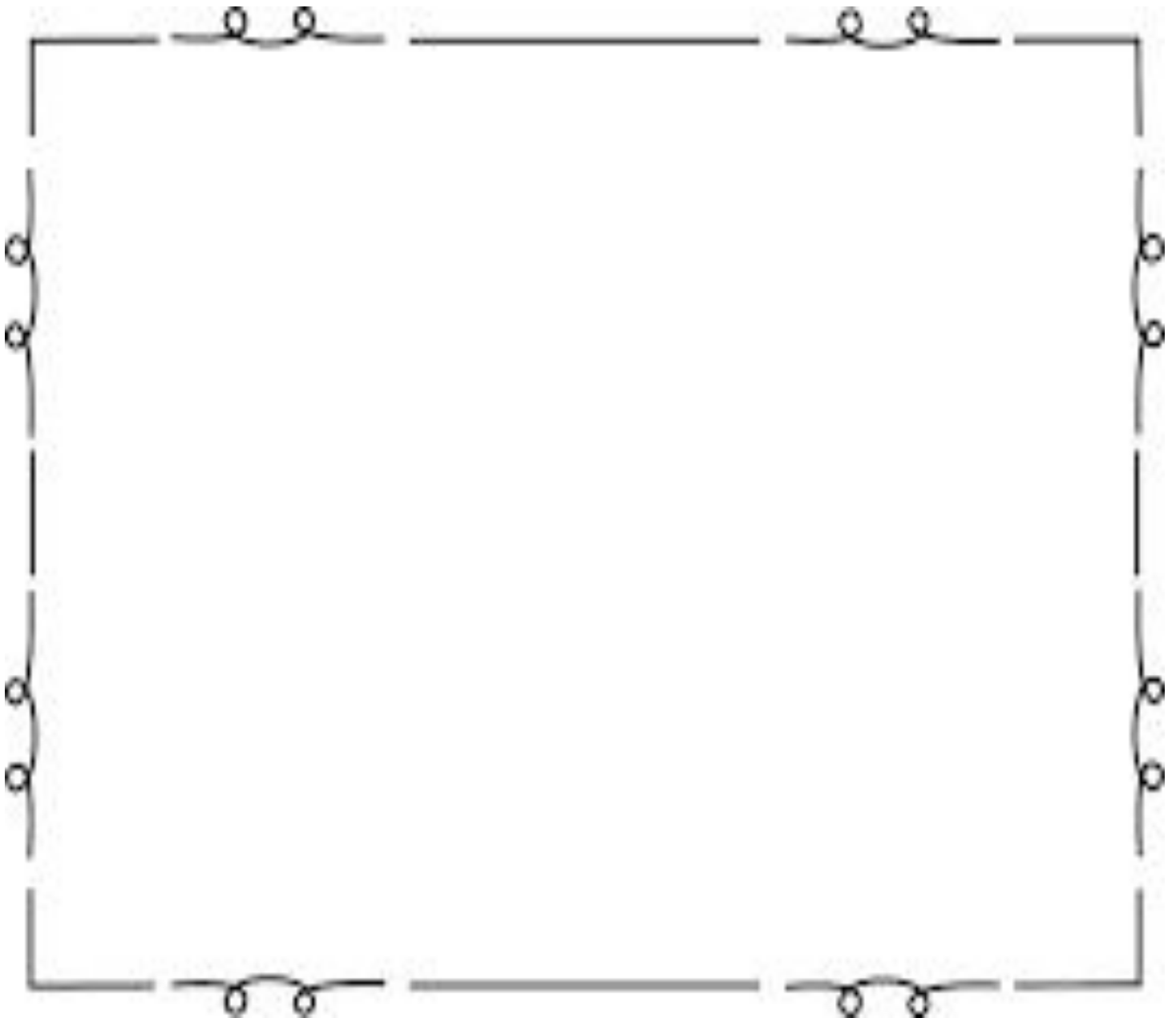
\_\_\_\_\_

\_\_\_\_\_.



# 3. MATERIALS

What materials will you need for your experiment or design? Draw a picture of your materials and label each one.



# 4. MAKE A PLAN

What is your plan? What will you do first? Second? Last?

First I will \_\_\_\_\_

\_\_\_\_\_

Next, I will \_\_\_\_\_

\_\_\_\_\_

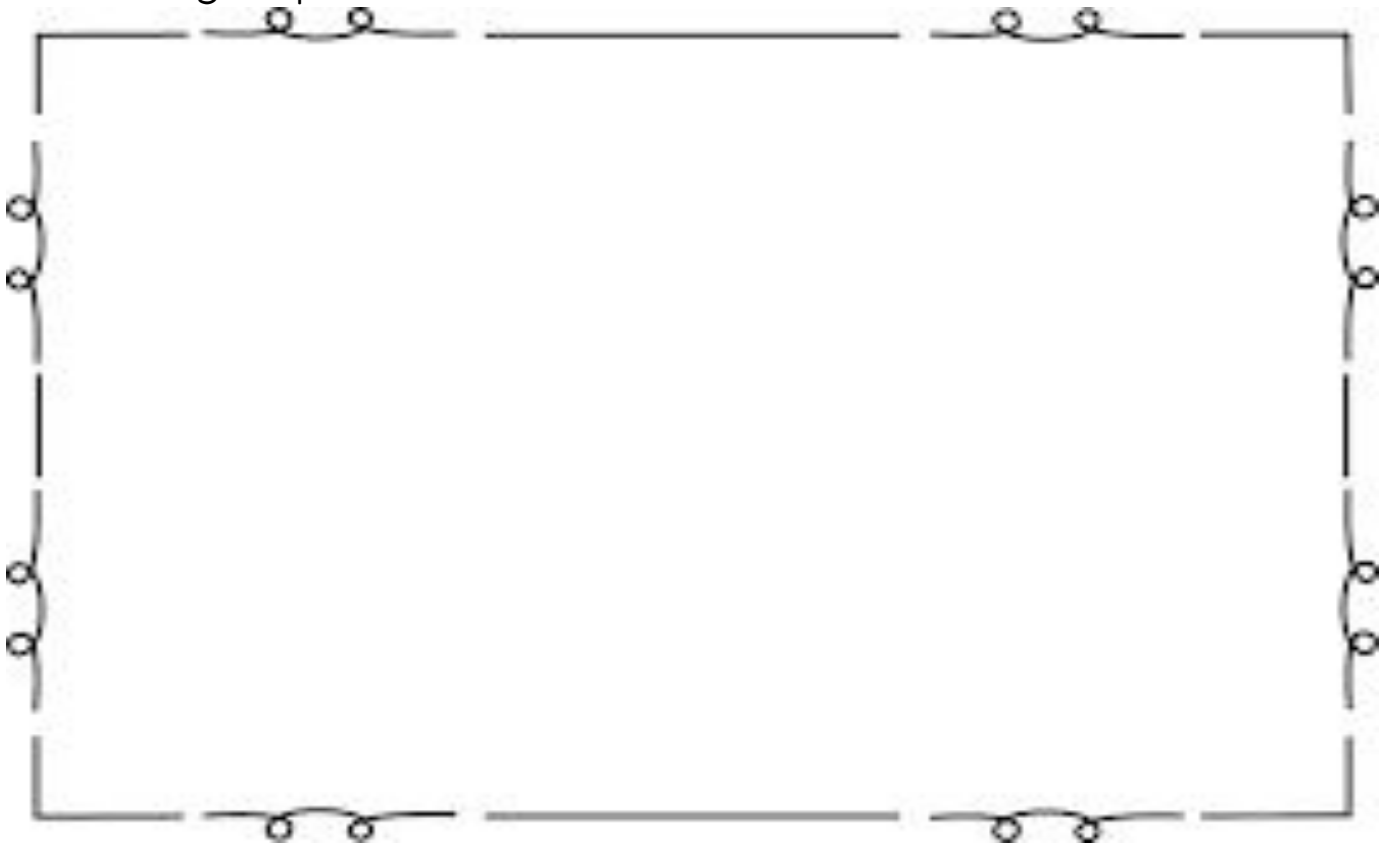
After that, I will \_\_\_\_\_

\_\_\_\_\_

Lastly, I will \_\_\_\_\_

\_\_\_\_\_

Draw your plan.



# 5. EXPERIMENT/CREATE

What happened? Keep track of what happens in your experiment or design by drawing pictures or using words in the boxes below. You may not need all of the boxes.

1st	2nd	3rd
4th	5th	6th
7th	8th	9th

What did you learn?

---

---

---

---





# 6. PRESENT

Each person who participates in the STEAM Showcase will be responsible for creating a board showcasing their project and results. Your board should be a trifold board that is able to stand on its own. In addition to the board, you may include any evidence from your experiment or your design as well.

<b>Title of Project</b> <b>Author</b>		
<b>1. Ask</b>	<b>3. Materials</b>	<b>5. Experiment/ Create</b>
<b>2. Hypothesize/ Imagine</b>	<b>4. Make a Plan</b>	<b>6. What I Learned</b>

