

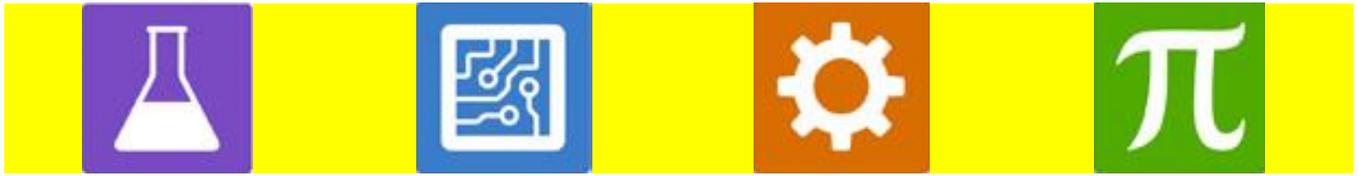
Stem

Student packet



Name _____

Section _____



STEM Vocabulary

- Matter – anything that has mass and takes up space (volume)

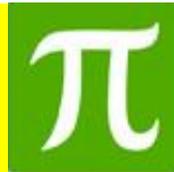
- Physical properties of matter – can be observed or measured

- Observable – properties in which you use your five senses to get information about an object (i.e., look, feel, smell, taste)

- Measurable – properties that must be measured with a tool (i.e., ruler , beaker, scale)

- Texture – the visual and tactile quality of a surface

- Strength – describes the material of an object and how much force it can handle



STEM- *Mint* Mobiles

Building Background Knowledge

Working Packet

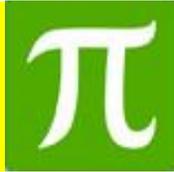
Directions: * *Scholars will watch the two videos on Matter and participate in a class discussion about the different properties of matter.*

Respond

1. What is matter?

2. List five examples of physical properties of matter?

3. What properties of matter would be important to consider when building the *Mint* mobile? Why?



Group # _____

Section: _____

Student Name: _____

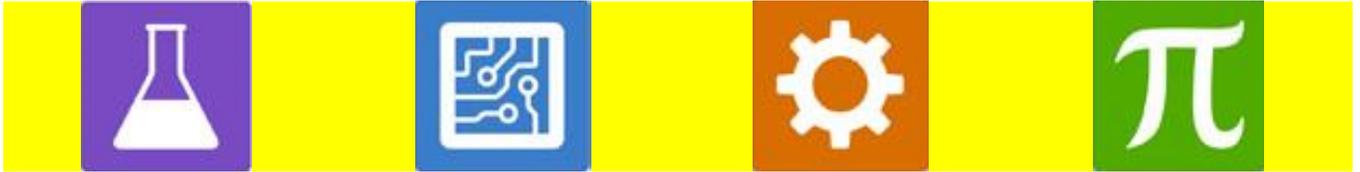
Partner's Name: _____

Give your project a title:

Design the Prototype

(Create a labeled diagram of your prototype.)

Materials



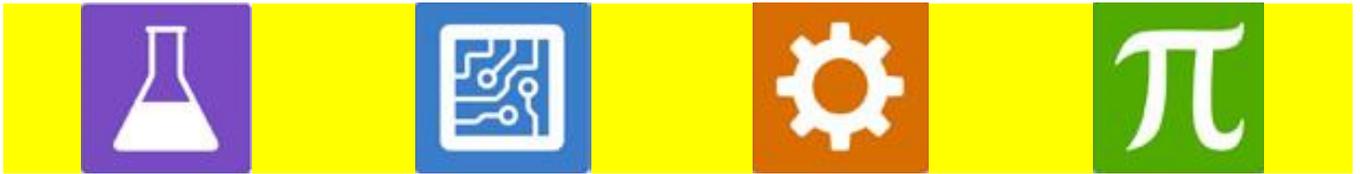
Group # _____ **Section:** _____
Student Name: _____
Partner's Name: _____

Test your Prototype - Collect your Data

Distance Traveled Trial 1:

Distance Traveled Trial 2:

Distance Traveled Trial 3:



Group # _____

Section: _____

Student Name: _____

Partner's Name: _____

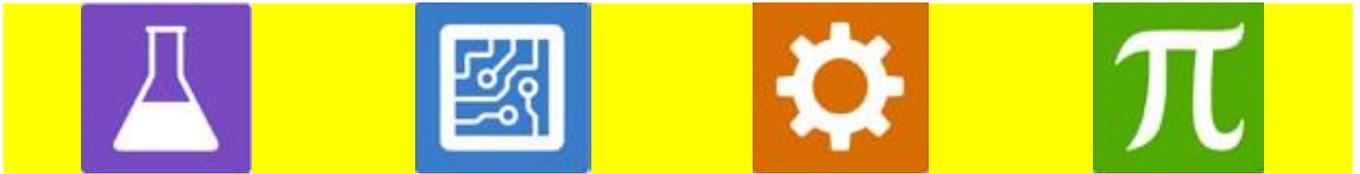
Improve the Prototype

(Re-design your Prototype. Create a labeled diagram of your improved prototype.)

Blank area for drawing a labeled diagram of the improved prototype.

Materials

Blank area for listing materials.



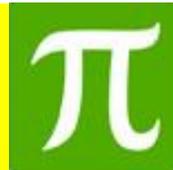
Group # _____	Section: _____
Student Name: _____	
Partner's Name: _____	

Reflection Questions

1. In what way did you improve your prototype?

2. Do you expect the improved prototype to pass the challenge?
Why?

3. What did you learn? Discuss your success or lack of success and reasons for it.



Make a Table – Use *Pages* to create a table to record your collected data. Share the table on **Seesaw**.

Instructions: Create a *Pages* Table that includes the following information:

1. The title on the top of the table
2. Two labeled columns with bold font, for each Prototype
3. Three rows, under the 2 columns, to document each trial run and the distance each prototype traveled
4. Centered data in each column
5. Data collection must include values with three decimal places