



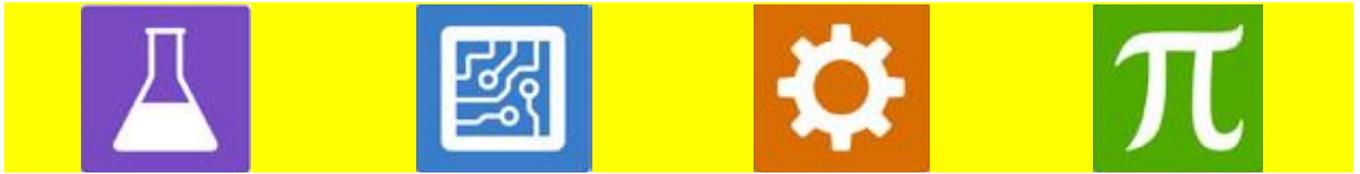
Stem #1

Float or Not

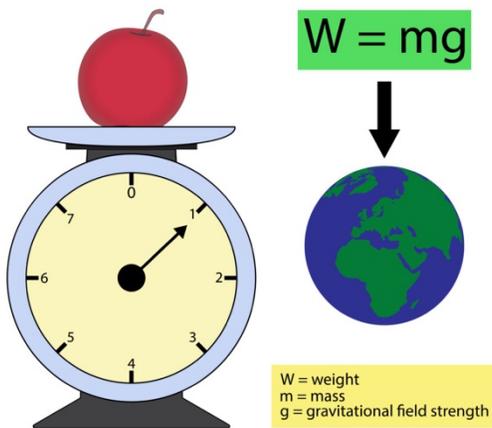


Name _____

Section _____



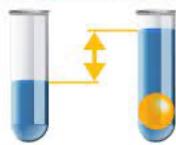
STEM Vocabulary



Mass is the measure of the amount of matter an object contains.

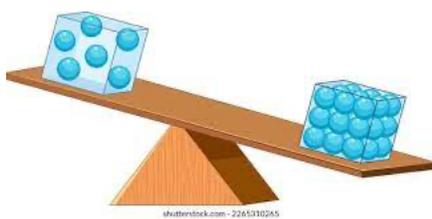
Weight is the measure of how hard gravity pulls down on an object.

amount of space
an object takes up

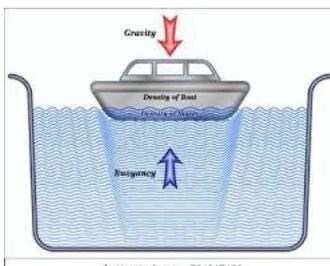


volume

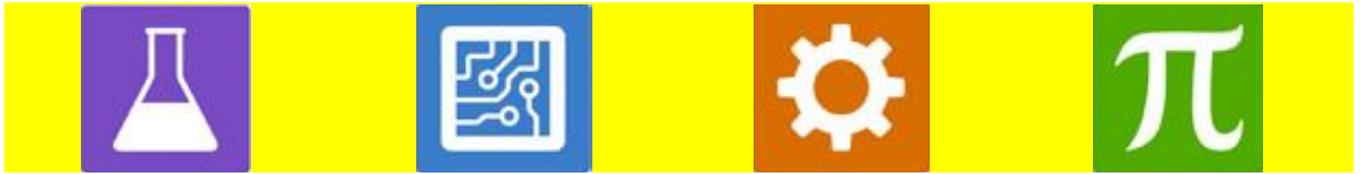
Volume is the amount of space an object takes up.



Density is the measurement of how tightly a material is packed together.



Buoyancy is the ability or tendency to float in water or air or some other fluid.

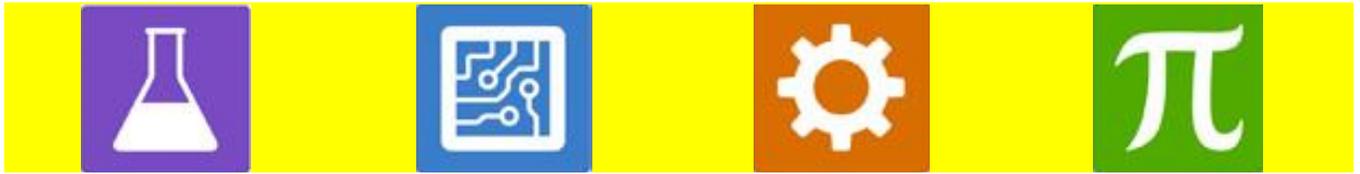


STEM-Float or Not

Building Background Knowledge **Working Packet**

Directions:

Respond



STEM-Float or Not

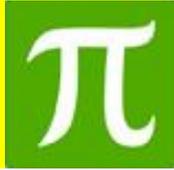
Research **Working Packet**

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

Challenge:

Research

(Sources: **Science Notebook, Elevate Science Textbook, and/or Discovery Education.** Note the **sources** you used, including **page numbers, titles, and/or links** in the provided space below.)



Group # _____

Section: _____

Student Name: _____

Partner's Name: _____

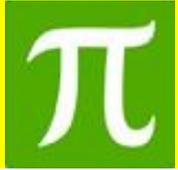
Give your project a title:

Design the Prototype

(Create a labeled diagram of your prototype.)

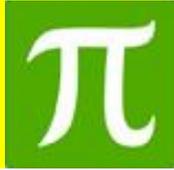
Materials

| | |
|--|--|
| | |
|--|--|



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

Test your Prototype - Collect your Data



Group # _____

Section: _____

Student Name: _____

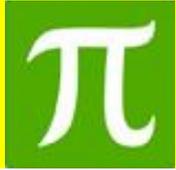
Partner's Name: _____

Improve the Prototype

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

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.

| |
|--|
| |
| |
| |
| |
| |
| |
| |
| |



Communicate your Results – Use Flip to create a campaign video to promote your boat!

Instructions: Record and submit a video of yourself and your team explaining why we should buy your boat!

1. At least 45 seconds video
2. Typed title
3. 2 stickers
4. 1 photo of your boat
5. Add background!
6. Add music!