

## THE CHALLENGE:



Summer gives us so many opportunities to explore and discover. Water worthy vessels have a long history of exploring and sailing our seas. They come in all shapes and sizes and have a variety of interesting features. There are sailboats, houseboats, rafts, catamarans, pontoons, yachts, canoes, and so many more!

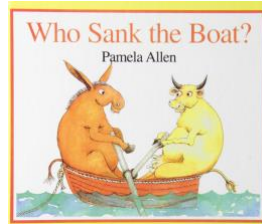
Your challenge this week is to design and construct a model boat that is sea worthy and resistant to capsizing.

~ STEAM TEAM ~  
Create, Test, Improve

## Learning Activities

### Language Arts:

Click [Here](#) To listen to the read aloud Who Sank the Boat?



Write a procedural piece of writing on how you built your own boat.

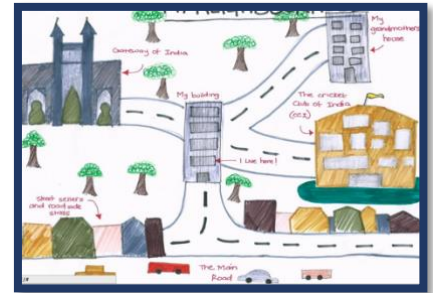
Start your piece of writing with the words: First, Next, Then, After That, Finally.

Did your boat float or sink? Make sure you include detailed pictures and sentences about your creation.

### You and Your World:

Make a list of places you would like to go visit in your community this summer.

Draw a map of your community, include streets, parks, buildings and houses. Label the places you will visit this summer.



### Numeracy:

Build a simple boat out of tinfoil you can test in your sink. First, test if your boat will float with no weight on it, then try adding weight. Can your boat hold 1 nickel, 2 nickels? Share on Facebook @STEAM in ASD-N or Twitter @STEMNorth. We would love to see how much weight your boat can hold!



**Art:** The letters of the alphabet are hidden everywhere but it takes an artistic eye to find them. Try to discover and photograph some letters in trees, on buildings, on the ground, etc.

Can you find all 26 letters? Once your photos are taken, try combining them to make a word that is meaningful to you!



## Summer Checklist



- Build a fort in the woods around your home
- Have a [camp-out](#) in your backyard
- Try a [star gazing activity](#) on a clear night
- Check [Brilliant Labs](#) and [Science East](#) for fun, educational activities
- Create a summer business selling homemade items

## Learning Activities

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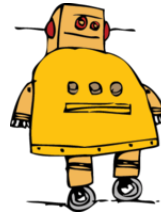
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### Language Arts / Technology: Social Studies:

[Instructables.com](http://Instructables.com) is a website with a community of people who like to make things. They make it easy to learn how to make anything, one step at a time.

When making your boat this week, write your own instructions so someone else could make exactly what you made, one step at a time.

Check out their [website](#) and maybe you will be inspired to make something that you always wished you had!



Make a bucket list of places in New Brunswick you would like to visit this summer. Using the New Brunswick map, label where these places are located.

Click [HERE](#) for a larger map.



### Science / Numeracy: SINK OR FLOAT??

Try this! Fill a bucket or sink with water and gather a variety of objects about the same size but different weights (packing peanuts, balls of paper, paperclips, coins, pebbles, clay, etc.) Predict whether the objects will float or sink in the water and then test your predictions. After observing which items float and which sink, record your results and a possible explanation in your journal!

Watch this super fun and educational video from [Mark Rober](#) about buoyancy and a pool full of Orbeez! →



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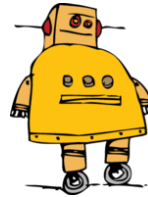
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When making your boat this week, write your own instructions so someone else could make exactly what you made, one step at a time and post it to their site!

Check out their [website](#) and maybe you will be inspired to make something that you always wished you had!



### Social Studies:

Make a bucket list of places in New Brunswick you would like to visit this summer. Using the New Brunswick map, label cities and where these places are located.

Click [HERE](#) for a larger map.



### Science/Numeracy:

What floats your boat?!



When an object floats on water, it is because it is less dense than water. **Density** is basically how compact an object is; how much space an object takes up (its **volume**) *in relation to* the amount of matter in it (its **mass**).

It's why a hollow tennis ball floats and a rock of the same size sinks.

$$D = \frac{M}{V}$$

Try this: Drop a ball of modelling clay in a bowl or sink of water. What happens? Record your results and questions in writing or sketches in your journal. Now, see if you can mold the clay into a shape that will float.

Add weight once it floats. How much weight can it hold?

Check out this very cool video from [Mark Rober](#) → about buoyancy, density and a sand hot tub!



### The Arts:

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For more Summer checklist ideas click [HERE](#)