





Seaworthy STEM[™] in a Box Series







Anchors Aweigh!

After building your anchor, draw the model of your anchor. Use different colors to represent the beads on your anchor . (Don't forget to count and draw the same amount on your anchor!)



Fun Fact!

Contrary to what many people assume, it is not the ANCHOR that stops a vessel moving, but in fact the cable connecting the two. Due to it's length and weight, it forms a natural 'catenary' (curve), which acts as a 'spring' to absorb shocks.





2 Let's do some math! Look at the different color beads on your anchor. Look at the different colors and count each color.

| Red: | Purple: |
|---------|---------|
| Orange: | White: |
| Yellow: | Black: |
| Green: | Pink: |
| Blue: | |

3 <u>Count</u> and <u>add</u> all the beads and give the sum total below.

| Total number of beads: |
|------------------------|
| |

Fun Fact! The word anchor is Greek in origin, meaning "crooked" or "hook."

Lengineering Design Challenge: Now change the shape of your anchor to see if you can use fewer beads on your anchor to park your boat. <u>Draw</u> your design.



4 Engineering Notebook

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#SeaworthySTEM

Anchors Aweigh! Engineering Notebook



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