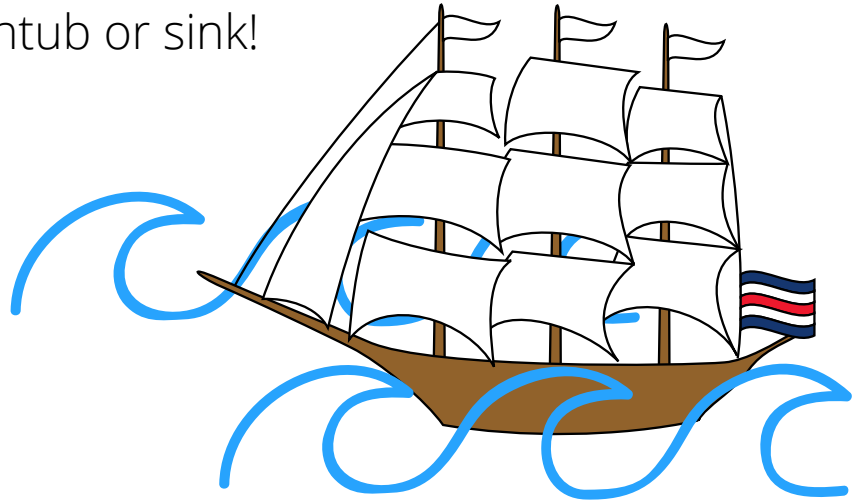


Build a Boat

The RRS Discovery had to withstand high winds and choppy waters in the South Sea around Antarctica. See if you can build a boat to withstand the waves in your bathtub or sink!

You Will Need:

- Materials to build with (foil, paper, building blocks, whatever you have)
- Sink or bathtub
- Plastic lid/plate to make waves in your tub/sink



Instructions:

1. Make a plan for your boat. What characteristics might a boat need in order to float? What about staying upright in waves?
2. After you have planned your boat, build it!
3. Place your boat in a bathtub or sink full of water (It doesn't need to be completely full, a few inches is fine). Does it float? If so, move on to the next step. If not, go back and re-engineer your boat so that it will float.
4. Now that your boat floats, use a plastic container lid or plate to gently press on the water to begin to make waves. What happens to your boat? If it stays upright, great! Make your waves bigger and see how long your boat survives. If not, go back and re-engineer your boat to stay upright! Take a video and send it back to DSC so we can see your fabulous boats!

TIPS:

- Heavy boats tend to be more stable.
- Thin boats tend to wobble more easily.

