

TRY THIS!



"Float Your Boat"

Fun to do alone or try with friends! See how long your boat will float on the water without sinking. The trick is this...you will be filling your boat with pennies, one penny at a time, making your boat heavier and heavier.

You will need:

- 1 piece of aluminum, exact same size (5 X 5 inch square) for each person.
- 1 deep container filled $\frac{1}{2}$ way with water.
- Lots of pennies for everyone.

Make a prediction:

- How many pennies will I be able to float in my boat before it sinks?

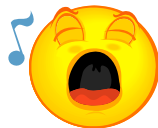
Get started:

- Shape your piece of aluminum foil into the shape of a boat.
- Put your boat on the water and carefully place your pennies into the boat...one at a time.
- Eventually, the boat will be too heavy to float.
- The boat that floats the longest with the most pennies is the winner!

*** *Small plastic chips may be used instead of pennies.*

"Floatation Explanation Song"

(sing to the tune of *Row, Row, Row Your Boat*)



- What makes objects float? Reasons there are three: Surface tension, mass displaced, and lesser density.
- Cohesion between molecules...Creates a bond that's tight...So certain things will stay on top... If they're flat and light.
- Large boats and heavy things...Can on the surface ride...Their shape allows an equal mass... Of water pushed aside.
- Some objects have less density...Than water, this we know...The denser water holds them up ...Supports them from below.