

SAIL OFF TO ADVENTURE... WITH THE GIRL SCOUTS!



Try the Penny Boat Challenge!

Supplies:

- Aluminum Foil
- Pennies (5-30)
- Shallow pan of water

1

Make your plan. What kind of boat can you design, that will be able to float and carry these pennies across the sea? Draw a picture of how you'd like your boat to look.

2

Build your boat. Fold the piece of aluminum foil to create your boat.

3

Test it out. Place your boat in a shallow pan of water (*plastic containers, bowls, cake pans work well*). Can your boat float? Place a penny in it. Can it still float? Now, keep adding pennies. How many can you add before it sinks?

4

Improve your design. Try making changes to your boat that might make it sail better and hold more pennies. What changes did you make? Try it out. Does your new design float and carry more pennies?

What did you learn?

The steps you followed are called engineering! Engineering means creating products and building things using math and science! When you designed and built your penny boat, you were an engineer! Does that sound like a fun career?

