

What Floats Your Boat?

WHAT YOU NEED:

- One 12-inch square of tin foil
- 40 pennies (or any mixture of coins)

HOW TO:

1. Fold your tin foil into a boat and set it in the water.
2. How many pennies can you put in before the boat sinks?
3. Can you change the design to fit more coins?



WHAT'S HAPPENING?

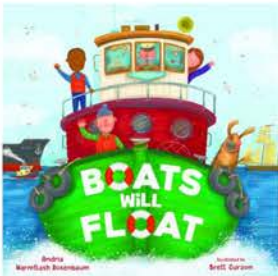
Buoyancy is the ability of an object to float when placed in a fluid. Surface area, the amount of space an object occupies, greatly affects the buoyancy of an object. A larger surface area allows the force (pennies) to be spread out over a larger area. This allows the boat to float even with the “cargo.”



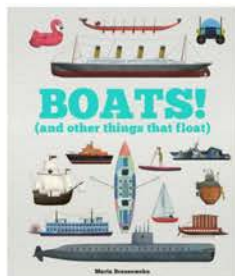
FUN FACT

Tin was the original metal used to make foil wrap. Aluminum proved less expensive and more durable, so it replaced tin. Some people still call aluminum foil “tin foil,” but it doesn’t have any trace of tin in it.

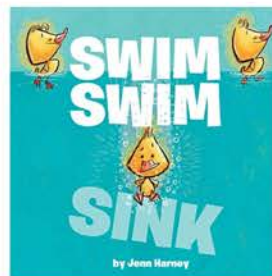
Related Books:



Boats will Float
by Andria Warmflash
Rosenbaum



Boats! (And Other Things That Float)
by Bryony Davies



Swim Swim Sink
by Jenn Harney



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