

What makes a Boat Float?

Design Targets

Important

For each design that you test, fill out one design section on the laboratory worksheet.

Design Target #1

You are a member of a tribe of Inuits who is living on the western coast of Canada. As summer approaches, you are given the task of designing a craft that will carry people and supplies to your summertime settlement. You will be traveling along the coast in reasonably calm waters. Your craft must be able to carry several people, their possessions, and supplies for the summer. To simulate this load, you will use rolls of pennies. You must design a craft that will carry three rolls of pennies.

Design Target #2

You and your Inuit tribe have reached their summer settlement. Since you successfully designed the crafts that brought your tribe safely here, you have been given the job of building a boat to take the hunters out into the ocean to hunt for food. This boat must be lightweight, maneuverable, and most importantly fast in the water while carrying only one person. Use the tub of water to demonstrate your craft's speed and maneuverability.

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Laboratory Worksheet

Target # _____

Sketch	Changes	Results

Target # _____

Sketch	Changes	Results

Target # _____

Sketch	Changes	Results