

Challenge

DESIGN A BOAT

How many pennies can you float in a boat made from one piece of aluminum foil?

What you'll need:

- 2 aluminum foil sheets
- Scissors
- 15-30 Pennies (or other small items)
- Container of water

What to do:

1. Cut each large foil sheet into four equal pieces.
2. Use one piece of foil to make a boat and place it on the surface of the water. Does it float?
3. Add pennies slowly—one at a time. Count how many pennies your boat holds before it sinks.
4. Try again—can you improve your boat's design so it will hold more pennies?



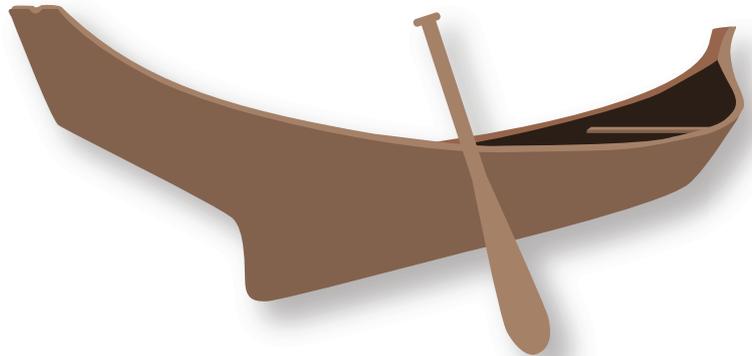
**Keep on
Engineering**

Design a boat using different materials that will hold even more weight before sinking.

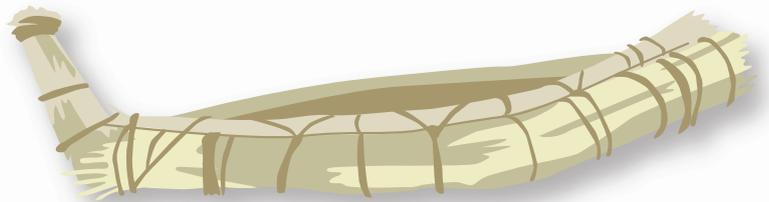
NATIVE AMERICAN CANOES

Native Americans in the Pacific Northwest developed methods for making effective watercraft using the resources available in their environment.

Coastal Tribes carved dugout canoes from a single, hollowed-out log.



Native peoples in Eastern Oregon communities made lightweight canoes using bundles of tule grass reeds.



Coquille Indian Tribe members paddle into the Ni-les'tun Marsh near Bandon after a restoration program opened tidal channels in the Coquille River estuary.

Photo: Roy W. Lowe/ U.S. Fish and Wildlife