

# BUILD A CANOE



Group Members:

-----  
-----  
-----

# Instructions:

With your group you will be building a canoe (**kənim**), such as the ones that the Native Americans of the Pacific Northwest traveled in. Your canoe will be tested to see if it floats, and also to see if it can hold a load of supplies. The goal is for your canoe to float for at least three minutes and be able to hold supplies without sinking. You will be given options for materials to build your canoe. If, during the construction of canoe, your group feels it could benefit from more or other materials, your group may need to negotiate with other groups for supplies. This must be done in a civil way and if a group does not want to negotiate they do not have to. Before you start building your canoe, construct a plan with your group members. Consider the following:

1. The shape of your canoe
2. The materials you have to build your canoe
3. The water considers. Are rivers always calm? Will your canoe hold up during rough waters? Will your canoe travel in other bodies of water, such as the ocean?

## Make A Plan

Working with your group, construct a plan to build you canoe. What shape will your canoe be? What materials will you use? What are the steps you need to take to build your canoe? Sketch your canoe design in the box below. Make sure to label the canoe with the materials you will be using.

Draw Your Design: Label the parts and include the bottom & sides of your canoe.

List of Materials Needed:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



## Test Your Canoe!

Test your canoe in a tub of water designated for this experiment. Once you set your canoe in the water make sure you start the timer! Once your canoe has stayed afloat for at least one minute, start to add supplies to see if it will hold. Try to make the canoe float for another two minutes. If your canoe continues to float with supplies, make waves in the water to see if it will continue to stay afloat. Record your findings in the table below.

TEST	OBSERVATIONS/ADJUSTMENTS
Test #1	
Test #2	

**Evaluation:** Did your group succeed in creating a canoe that floated for at least one minute and then another two minutes holding supplies? If not, why did it fail?

Test #1: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Test #2 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

