FLOAT BOAT CHALLENGE

Carla & LIV KIDS
STEM Summer Camp For Kindergartners

STEM LEARNING	***[S]*** *Science* ***[E]*** *Engineering* **Science:** Buoyancy, The Scientific Method **Engineering:** Design a boat that will stay afloat. Ensure the boat is water resistant with no holes
GOAL	Learners will build a boat that will float with household items. Learners will practice using the scientific method to make a prediction or hypothesis on how many apples can float safely in the boat without sinking it.

STEPS

Instructor/Parents Wil…

1. Gather materials and create a space for that can get wet!
2. Instructors and Parents may want to pre-cut apples and pre-fill the container with water
3. Watch the Carla and Liv KIDS Video
4. Craft boat with tin foil. Try the Carla method! Start by folding tin foil into a paper plane design
5. Test boat in the water. Does it float? Continue designing the boat until it can float on its own
6. Ask learner how many apples they predict their boat can hold? Record the answer.
7. Begin piling apples into the boat until it sinks!
8. Take out the boat and pour salt into the water
9. Repeat steps 6 and 7. Answer the question which boat holds more apples?

Materials

- Tin Foil
- Bucket/Container
- Water
- Apple Slices or Rocks
- Salt
- Spoon

SOURCE https://littlebinsforlittlehands.com/penny-boat-challenge/