

FLOAT YOUR BOAT! - SCIENTIFIC METHOD PROJECT

Name: Molly Schmidt

BLK: C

CHALLENGE: Make a boat that can float in water and hold the most amount of

pennies.

PROBLEM: How can i get a large number of pennies into my boat without it sinking.

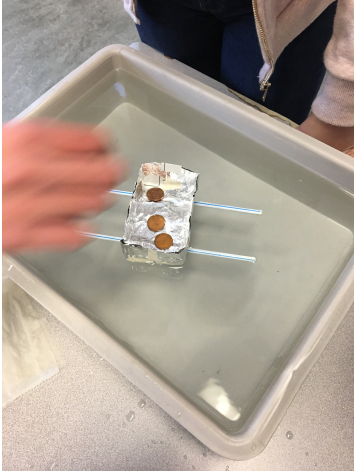
HYPOTHESIS: if the sides are higher and the base is thicker then the buoyancy of the boat will increase and it will hold more pennies

IDEA FOR ORIGINAL DESIGN: Insert image and write a description explaining your thinking/reasoning as to why you chose that particular design



We chose to put half of a marshmallow and two straws running parallel filled with marshmallow, so the water wouldn't fill in it. We chose it because we thought the marshmallow would create some buoyancy and the straws would keep the boat sturdy, which it did, but it couldn't support all that weight.

For our boat part we created a rectangle shape to create a bigger base and high sides. We chose this shape to create more room for the pennies instead of them piled up in one spot, and higher walls so if the weight overcomes the boat it will take longer to overflow.



As we placed the boat into the water it seemed to be pretty sturdy. It fully supported the pennies until we hit the late 40s and that's when it was working its hardest and at 55 pennies it sunk.

HOW MANY PENNIES DID YOUR BOAT HOLD?

Our boat held 55 pennies

WHAT WOULD YOU KEEP OR CHANGE ON YOUR BOAT DESIGN IF YOU WERE TO DO THIS AGAIN?

What I would change about our boat is I would have created a smaller base to make the sides of the boat even higher than they were. I would have also crossed our straws at the bottom instead of them running parallel, to make the flotation way more stronger.