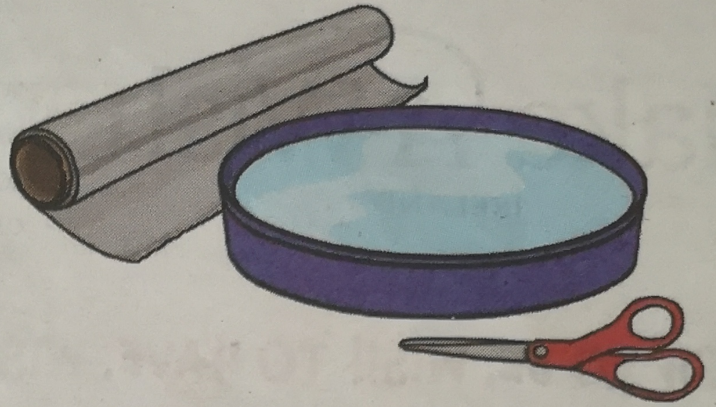


## TIN FOIL BOAT

You get two tries to make the perfect tin foil boat

### WHAT YOU WILL NEED

- Large sheet of tin foil
- Scissors
- Large bowl of water
- 5c coins
- Boat design analysis sheet



### INSTRUCTIONS

1. Use scissors to carefully cut the tin foil into two rectangles.
2. Using the first piece of foil, form a boat that can hold pennies and not sink.
3. Predict how many coins your boat will hold.
4. Place the foil boat in the bowl of water.
5. Place one coin at a time in the boat. Keep adding coins until the boat sinks. Make sure to count them as you go.
6. Use the second piece of foil to make a new and better boat, based on what you observed from your first design.
7. Estimate how many coins the new design will hold.
8. Place the new boat in water, and carefully place one coin at a time on the boat until it sinks.
9. Complete the boat design analysis sheet, *right*.

### Foil Boat Design STEAM Analysis

Design 1	
Prediction	
Actual Number of Pennies	

What changes will you make on design 2?

Draw a diagram of your second boat design.

## LOCKED IN A DUNGEON

It's the Middle Ages and you have been locked in a dungeon for something you didn't  
Use your creative writing skills to write a story about your predicament