

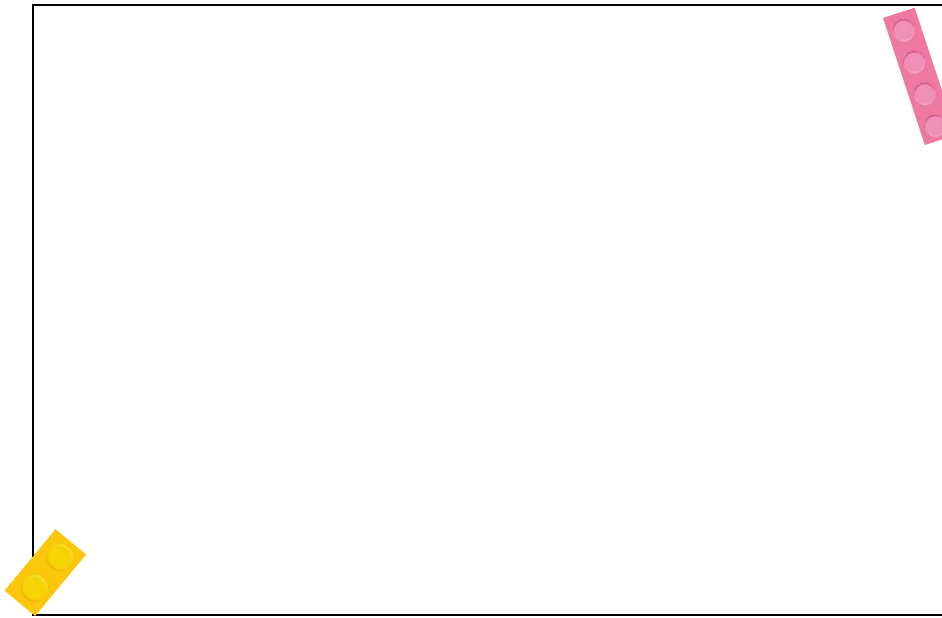


Lego Boat Challenge: Make it Float

The Challenge is: _____
_____.

My first boat looks like this:

Sketch a drawing of your boat. Describe it. (length, width, height)



My boat (circle one)

FLOATED

SUNK



Describe what happened. Why do you think it worked or didn't work?

Here are changes I will make: _____

Did your changes work? Why do think this happened? _____



After testing new boat designs and/or observing others, what does the Lego boat need to float well? _____

Lego Boat Challenge: Holding Weight



Step 1:

Using your Lego boat that floats, decide what item you will add to your boat for weight.

■ I will use _____ to add weight to my boat.

(ex. Pennies, glass beads, etc.)

Step 2:

■ Compete with others or build different boats to see which boat can hold the most. You can write in each person's name in the table below if more than one person is competing.

■ Place the Lego boat in the water and slowly add each item to the boat. Count how many items it holds before it sinks or tips over. Record your results below.

Experiment Results

	How Many Items	Sink or Tip Over
Boat 1		
Boat 2		
Boat 3		
Boat 4		
Boat 5		
Boat 6		
Boat 7		
Boat 8		
Boat 9		
Boat 10		



■ Which boat held the most weight: _____

■ How much more weight did it hold compared to other boats?

■ What did the boats that held the greatest weight have in common?

■ Knowing what you know now, how would you change the design of your boat? _____

■ Did the boats mostly sink or tip over? Why do you think this happened? How can it be fixed? _____

