

Thursday 11th February STEM Challenge

Can you build a boat for the Sandman?

Today I am going to set you a STEM challenge! Remember STEM challenges require you to use a little bit of science, maths and engineering skills all at once.

Now, we have heard in our book that the Sandman needed to build a new boat to allow him to go back home to Ireland. Your task today is to build a boat for the Sandman – remember he is going to travel a long way so make sure it is strong and floats well!

Items you can use:

(These are the items and prices I will be giving to the children in school, you can use anything you have around the house. You also do not have to include a price list for your items, I have included it for an additional challenge)



Paper: 40p a sheet.



Tin Foil: 30p a sheet.



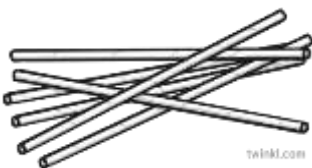
Kitchen Roll: 20p a sheet.



Cardboard: 70p a sheet



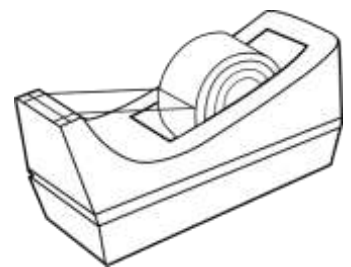
Sponge: 70p a sheet.



Straws: 5p each.



Lolly Sticks: 10p each



Sellotape: 2p a strip

You only have £2 to spend so think wisely about which items you really need and how many!

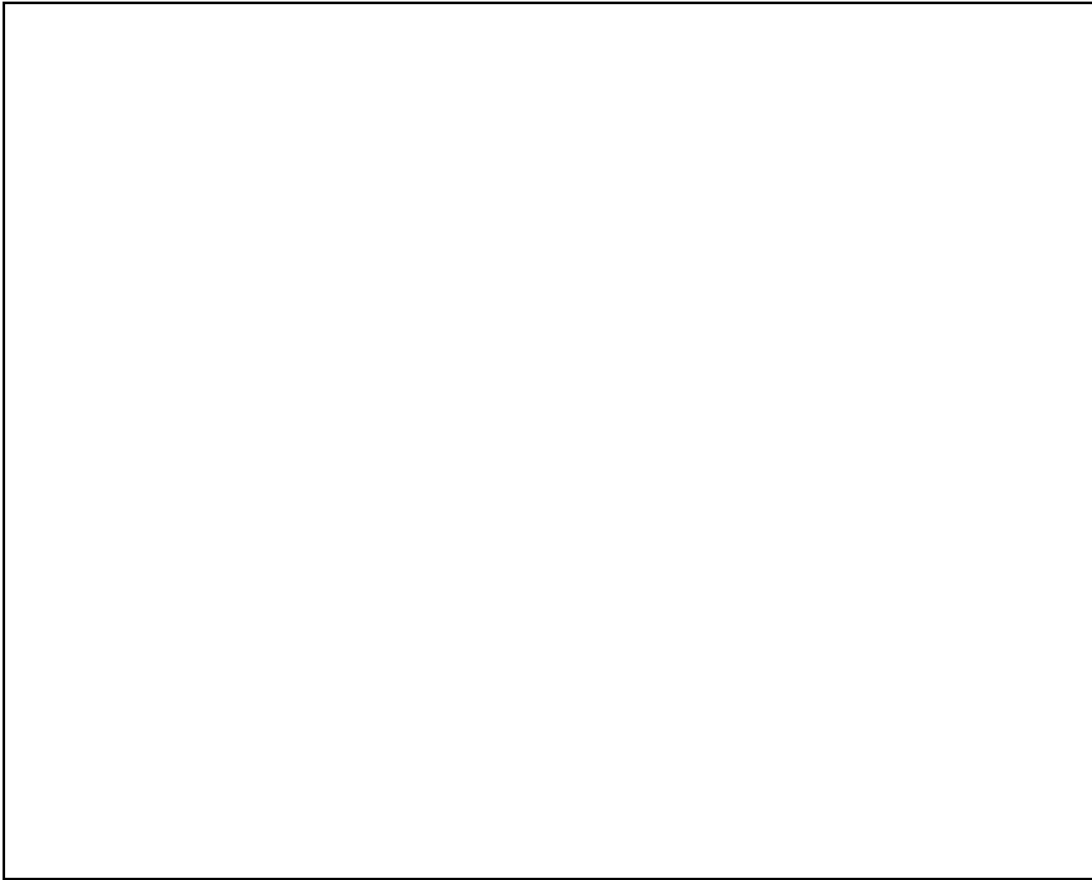
Use the planning sheet on the next page to design your boat, then get building.

Once you are finished, fill up a sink or bath to see if it floats! If it floats, how many 1p coins can it hold up before it sinks!

Let's see who can build the best boat!

Good Luck!

My Boat Design



Items I will need:

Prediction:

Will it float? Yes/ No

How many 1p coins will it hold?

