**Aluminium BARGE**

Your TASK is to use your knowledge of forces, pressure and buoyancy to design and create the MOST stable and steady aluminium boat using only the equipment listed below…

* + a 30.5 X 9.0 cm sheet of aluminium foil
	+ 10 wooden toothpicks
	+ 30cm of 12mm transparent tape

You may work in groups of two but you only have **30 min** to build your boat, so you must work fast…

In the end, **success** will be measured on ***how many pennies your boat can hold***…

After finishing your Aluminium boat and testing it in the water, answer the following…

1. How many pennies did your boat hold? \_\_\_\_\_\_\_\_\_ **(5 marks)**

(top 20% = 5, next 20% = 4, next 20% = 3, next 20% = 2, final 20% = 1)

1. Explain your strategy or boat building concept, in other words what was soo special about your boat that it held so many pennies? **(2 marks)**
2. Draw and label your boat design below… **(3 marks)**