Aim : To create a paper or card boat which can successfully float whilst carrying weight.

Learning Objectives Brief 1) Understand how and why some things This week we are asking you to make a float and others don't. boat out of paper or card. 2) Test concepts and ideas using card/ paper boats. We would like your boat to be able to float 3) Use maths to calculate how much and carry as much weight as possible. weight your boat can hold. You will have to think carefully about a 4) Evaluate success and suggest range of different factors and use your potential modifications. engineering skills to create a successful outcome. Tasks Lat Bottoms Vee Воттот Round Bottoms 1) Read the task carefully and watch the videos listed below. 2) Make your boat out of paper/card Мотор 3) Test your boat by floating it then adding weight. How much weight will it hold? 4) Photograph your project and record how much weight it held. 5) Email your work to your teacher How? Before ybu start to make your boat watch these videos. How boats float https://youtu.be/06TFRgPImxU

Introduction to challenge https://youtu.be/NE3WuNsJwnA

Rules

- Your boat must be made from paper or card
- · You can reinforce it in whatever way you Like.
- You can seal the joints using tape.
- It can be any size you like!
- You can decorate to give it extra appeal.
- Your boat must be able to hold some weight

I am not suggesting you make it this big but look at Bristol's Cardboard Boat Race on YouTube for inspiration.

Kev words: Density, upthrust, weight, Archimedes principle, displacement, buoyant, evaluate, design