CARDBOARD BOAT

ENGINEERING CHALLENGE

Designed by Ben, Design engineer at Dyson

The brief

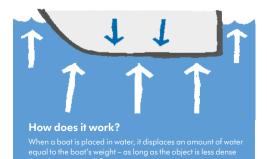
Construct a boat to support up to 250g without sinking.

The method

- 1. Draw out the basic shape of your boat on the cardboard, and cut it out.
- 2. Create walls for your boat from more cardboard.
- 3. Stick the bottom of the boat and the walls together with tape or glue.
- 4. Back everything with wax paper or foil be careful not to leave any gaps where the water can get in.
- 5. Place the 250g weight in the boat.
- 6. Set your boat afloat.

Top tip

Think about stability. Some shapes are more stable than others when a load is applied.



Materials

Cardboard

Wax paper

Tape or glue

Rubber bands

Foil

Scissors

(with adult supervision)

Craft knives

(with adult supervision)

A 250g weight





The SS Great Britain was the first iron steamer to cross the Atlantic. Designed by Isambard Kingdom Brunel in 1845, it was the first ship to combine an iron body with a screw propeller.