Lesson B
Keeping Afloat

Learning Objectives

To investigate different ‘anti-sinking’ ideas

To evaluate the effectiveness of different ‘anti-sinking’ ideas

What is the purpose of a watertight bulkhead?

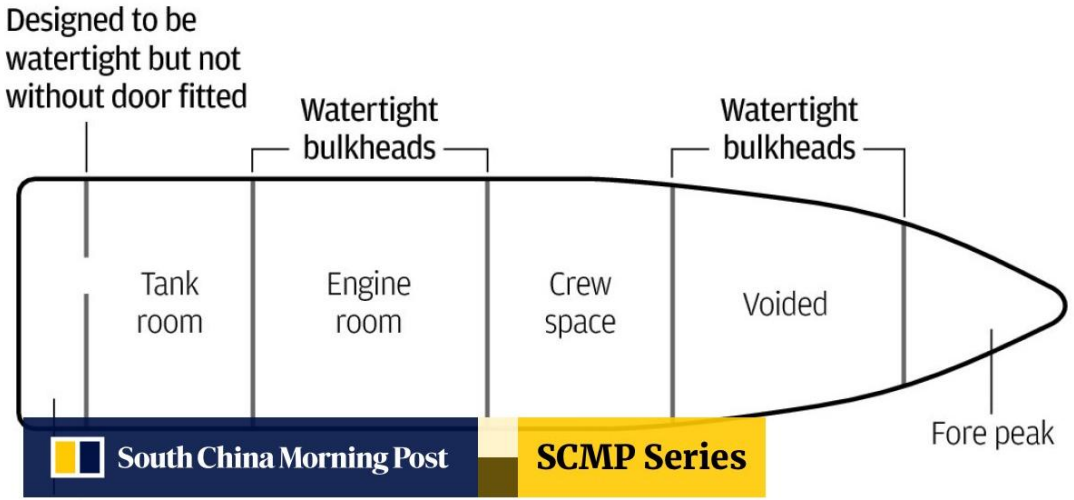
What was the independent variable?

What was the dependent variable?

What were the control variables?

Watertight Bulkheads

Watertight bulkheads are vertically designed watertight divisions/walls within the ship's structure to avoid intake of water in the compartment if the adjacent compartment is flooded due to damage in ship's hull



Aim

Can you find a way to keep the ship afloat when the hull is damaged?

Method

REMAKE YOUR CARTON SHIP

POKE A HOLE IN THE HULL

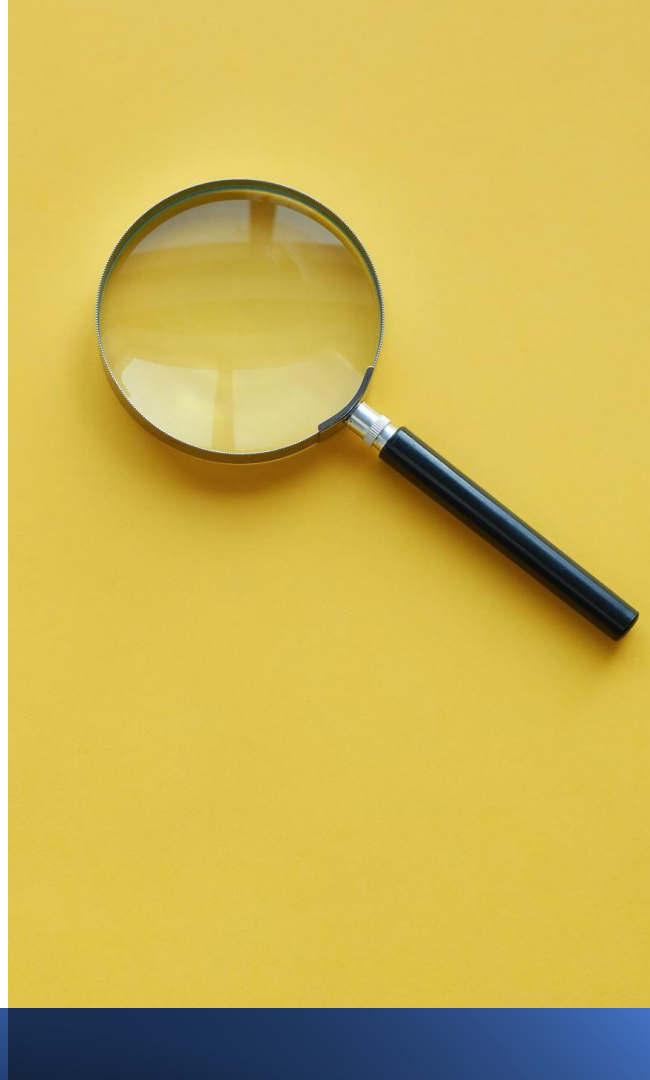
CAN YOU FIND A WAY TO KEEP THE SHIP FLOATING?

Results table

Idea to prevent sinking	Time to sink (s)

Conclusion

- Did any of your ideas work?
- Can you link your ideas to the Titanic. Could they have done something similar?



Did Titanic need to sink?

https://www.youtube.com/watch?v=NEkBSpmXxmg

Remembering Titanic

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