#### 81 Fluids – Revision Book

Name	
Target Grade	

Complete after the booklet. Two things I need to revise again are:

- 1. \_\_\_\_\_\_
- 2. \_\_\_\_\_

Fill in the gaps at the top of the table		
Describe the shape		
Can it be compressed Y or N?		
Is the volume fixed Y or N?		
What do we call water in this state?		

Explain the state using the particle model. Talk about particle spacing, the forces between them and their movement

# Changing State

Level	What I need to do
3	Name the three states of water
4	Understand that ice is less dense than water
5	Describe how the volume and density changes during the water-ice transition - how are they different to

Level 3

Complete the word fill

Ice is \_\_\_\_\_ water. When it melts it turns in to a \_\_\_\_\_.

If water is heated the gas produced is called .

Why do icebergs float?

Why is solid water different from most other substances?

#### Pressure in Fluids

Level	What I need to do
3	State what is meant by gas pressure and recall some of its effects.
4	Recall that pressure in a fluid changes with depth
5	Use a particle model to help describe the causes of pressure in fluids.

When a container is full of gas the particles moving around hit the walls of the container. This causes p

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Pressure in fluids <u>increases/decreases</u> as temperature increases

Pressure in fluids increases/decreases as depth increases

Use the particle model to explain why pressure increases as a gas is compressed.



## Floating and Sinking

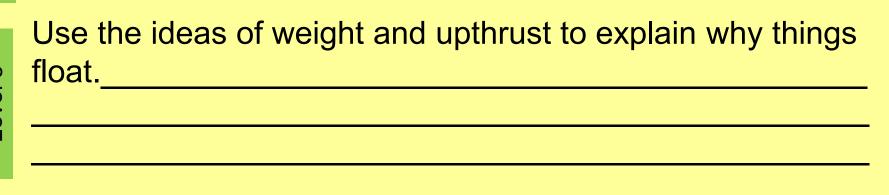
Level	What I need to do
3	Sate some objects that would float or sink
4	Write a definition for upthrust
5	Explain why an object floats

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List 3 things that sink	
List 3 things that float	

Use the glossary, write a definition for upthrust

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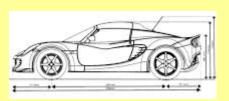
### Drag

Level	What I need to do
3	Name any resistive forces
4	Describe the ways in which the size of drag forces can be changed.
5	Explain the effects of balanced forces in simple situations

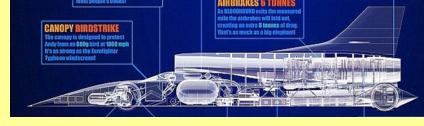
Cross out the forces that are NOT contact forces, upthrust, friction, gravity, water resistance, air resistance, nature, drag.

Streamlining is one way to reduce drag, which of these

shapes in the most streamlined.







Suggest 2 other things that increase of decrease drag

Use the particle model to explain why pressure increases as a gas is compressed.