

Y8 PHYSICS	8I Fluids Learning Checklist	I can do this already	Covered in Class	Strength or weakness?	Revised it?
8I1 The Particle Model	Developing: Describe the properties of the three states of matter and explain them using ideas about particles.				
	Securing: Describe how particles move in solids, liquids and gases, how this changes with temperature and what effects this has.				
	Exceeding: Explain what density is.				
8I2 Calculating Density	Developing: Use a formula to calculate density.				
	Securing: Use the particle model to explain density changes at different temperatures.				
	Exceeding: Describe how to measure the volume of regular and irregular objects.				
8I3 Changing States	Developing: Explain how chemical changes are different to physical changes, and recall some examples of each type.				
	Securing: Recall that ice is less dense than water, and why this is unusual.				
	Exceeding: Describe what happens to particles during changes of state, in terms of energy and bonds, and why there is no change in temperature while a substance is changing state.				
8I4 Pressure in Fluids	Developing: State what is meant by gas pressure and recall some of its effects.				
	Securing: Use the particle model of matter to explain atmospheric pressure in different situations.				
	Exceeding: Explain why pressure in a fluid increases with depth.				
8I5 Floating and Sinking	Developing: Use the idea of upthrust to explain why an object does or does not float.				
	Securing: Recall the factors that affect the amount of upthrust on an object.				
	Exceeding: Use ideas about density changes to explain how a hot air balloon flies or how the depth of a submarine is controlled.				
8I6 Drag	Developing: Describe the ways in which the size of drag forces can be changed.				
	Securing: Describe the causes of air and water resistance.				
	Exceeding: Explain why a vehicle needs a force from the engine to keep moving at a constant speed.				

For more help:

Read your 8I Summary Sheets for information on key points from the lesson.

Email your class teacher: (firstinitial)(lastname)@ndhs.org.uk *E.G. sfrise@ndhs.org.uk*

Look your topic up on BBC bitesize by typing 'BBC Bitesize +keyword' into google.

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