

TBAT	Outcomes	Skills	Assessment
1. Changing state Explain how the particle model enables changes of state	Recall the particle model Describe the changes of state Explain what happens to particles and temperature during changes of state, in terms of energy and forces.	Demonstrate sublimation using iodine crystals. Students gently heat a beaker of ice and record the temperature at regular intervals until the ice has melted and the water has been boiling for some time.	Self-assess
2. Pressure in air	State what is meant by gas pressure and recall some of its effects. Describe how air pressure can be changed		Self-assess
3. Pressure in fluids	Use the particle model of matter to describe the causes of pressure in fluids. Explain some effects caused by water pressure using ideas about forces.	Students	Self-assess
4. Drag	Recall forces affecting drag Compare friction and drag force	Students to investigate how mass affects drag	Self-assess
5. Therapy	Students to reflect on their collective feedback		Mid-point assessment- Teacher assessed
6. Floating and sinking	State what is meant by upthrust. Explain why an object floats. Recall the factors that affect the amount of upthrust on an object.	Students to apply their knowledge of forces to design a boat	Self-assess

7. Density Explain why ice is less dense than water.	Recall that ice is less dense than water. Describe the ways in which the volume and density changes during the water–ice transition are different from other materials. Compare densities of materials and link them to the mass of the particles and how closely they pack together.	Students to investigate the density of irregular objects	Self-assess
8. Investigating drag Design an effective parachute	Recall the factors affecting drag Explain how forces interact to change drag Explain how a parachute works by applying your understanding of air resistance.		Self-assess
9. Consolidate the learning of the topic	Students to complete the revision activities in preparation for their assessment.		Self-assess
10. Assessment	End of unit assessment	Exam technique	Peer assessed
11. Reflection Lesson	Students reflect on their assessment using the knowledge organiser.		