

Part 4 Changing state: a physical change

Activity No	Activity Name	Lesson type	Activity Description	
4.1	Observing changes in water	Explore & Explain	Students investigate the changes that take place when water moves from a solid → liquid → gas, and identify the correct terms of those changes. They also identify these changes as examples of a 'physical change'.	
		Hands-on & Digital		
		Long		
4.2	Ice play	Explore	Students follow a recipe for making ice cream. The recipe utilises the effect of salt on the melting point of water to lower the freezing point.	Optional
		Hands-on		
		Medium		
4.3	Can matter skip states?	Engage & Explore	Students see examples of substances that change from a solid, directly to a gas (sublimation). They also learn about uses of sublimation.	
		Digital		
		Short		
4.4	Detecting an invisible gas	Explore & Explain	Students use a simple test to detect the presence of carbon dioxide gas. They go on to complete a Digital activity familiarising them with a number of gases that they may come across in everyday life.	Optional
		Hands-on & Digital		
		Short		
4.5	What is happening to me?	Elaborate & Evaluate	Students imagine they are water molecules in an ice block and describe what happens to them when left in the sun.	Optional
		Classroom		
		Short		