Revision checklist

SC1

SC1 States of Matter

SC1a States of matter

Step	Learning outcome	Had a look	Nearly there	Nailed it!
2 nd	Name the three states of matter, and the physical changes that occur between them.			
5 th	Describe the arrangements and movement of particles in the different states of matter.			
6 th	Use information to predict the state of a substance.			
5 th	Describe the relative energies of particles in the different states of matter.			
7 th	Explain why the movement and arrangement of particles change during changes of state.			
7 th	Explain why the energy of particles changes during changes of state.			

Revision checklist

SC2 Methods of Separating and Purifying Substances

SC2a Mixtures

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 th	Describe the differences between a pure substance and a mixture.			
5 th	Use melting point information to decide whether a substance is pure or is a mixture.			
6 th	Describe what happens to atoms at a pure substance's melting point.			
6 th	Interpret a heating curve to identify a melting point.			
7 th	Explain why the temperature does not change as a pure substance melts.			

SC2b Filtration and crystallisation

Step	Learning outcome	Had a look	Nearly there	Nailed it!
4 th	State some mixtures that can be separated by filtration.			
4 th	State some mixtures that can be separated by crystallisation.			
6 th	Draw and interpret diagrams showing how filtration and crystallisation are done.			
6 th	Explain the formation of crystals during crystallisation.			
5 th	Explain how mixtures are separated by filtration.			
5 th	Explain ways of reducing risk when separating mixtures by filtration and crystallisation.			

SC2c Paper chromatography

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 th	Describe how some mixtures can be separated by chromatography.			
5 th	Identify pure substances and mixtures on chromatograms.			
5 ^{ch}	Identify substances that are identical on chromatograms.			
6 th	Draw and interpret diagrams showing how chromatography is done.			
6 th	Explain how substances can be separated by chromatography.			
6 th	Calculate R _f values and use them to identify substances.			

Edexcel GCSE (9–1)

Sciences

Revision checklist

SC2

SC2d Distillation

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 th	Describe how to carry out, and explain what happens in, simple distillation.			
7 th	Distinguish between simple distillation and fractional distillation.			
7 th	Identify when fractional distillation should be used to separate a mixture.			
7 th	Describe how to carry out fractional distillation.			
9 th	Explain how the products of fractional distillation are linked to the boiling points of the components.			
6 th	Explain what precautions are needed to reduce risk in a distillation experiment.			

SC2e Drinking water

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 ch	Explain why water used in chemical analysis must not contain dissolved salts.			
5 ch	Describe how fresh water can be produced from seawater.			
5 th	Describe the steps needed to make fresh water suitable for drinking.			
5 th	Suggest how to purify water when you know what it contains.			
8 th	Evaluate the hazards and control the risks present when purifying water.			