

Chapter and Topic	Lesson	Outcomes
	Electronic structures	<ul style="list-style-type: none"> Describe how the electrons are arranged in an atom Present the electronic structures of the first 20 elements in the periodic table
	Chemical equations	<ul style="list-style-type: none"> Describe what happens to the atoms in a chemical reaction Describe how the mass of reactants compares with the mass of the products Construct balanced symbol equations, including state symbols, to represent reactions
	Separating mixtures	<ul style="list-style-type: none"> State what a mixture is How to separate the components in a range of mixtures by <ul style="list-style-type: none"> Filtration Crystallisation Simple distillation
	Fractional distillation and paper chromatography	<ul style="list-style-type: none"> Explain why fractional distillation is needed to separate some liquids Describe how fractional distillation works Describe how paper chromatography works

C12 Trilogy Earth's Resources C14 Separate Earth's Resources	1	<ul style="list-style-type: none"> State examples of finite and renewable resources Extract information and interpret information from graphs about renewable and finite resources Evaluate significance of data using orders of magnitude
		<ul style="list-style-type: none"> State the difference between potable water and pure water Describe the differences in treatment of ground water and salty Explain how to carry out a simple distillation of salt solution and test the distillate to determine purity
		<ul style="list-style-type: none"> Describe how waste water is made safe to release into the environment Analyse the relative ease of obtaining potable water from waste, ground and salt water