

AQA Chemistry

GCSE Student Checklist

C10 Chemical analysis

Name _____

Class _____

Date _____

Lesson	Aiming for 4		Aiming for 6		Aiming for 8	
C10.1 Pure substances and mixtures	I can state what a pure substance is.	<input type="checkbox"/>	I can describe the difference between pure substances, impure substances, and formulations.	<input type="checkbox"/>	I can justify the classification of pure substances, impure substances, and formulations when data is supplied.	<input type="checkbox"/>
	I can describe how melting point and boiling point data can be used to identify pure substances.	<input type="checkbox"/>	I can explain how melting point and boiling point data can be used to determine the purity of a substance.	<input type="checkbox"/>	I can explain in detail the use of formulations.	<input type="checkbox"/>
	I can state what a formulation is.	<input type="checkbox"/>	I can state uses of formulations.	<input type="checkbox"/>	I can calculate percentage compositions of components in a range of formulations.	<input type="checkbox"/>
C10.2 Analysing chromatograms	I can describe and safely carry out a method to make a paper chromatogram.	<input type="checkbox"/>	I can explain how chromatography separates solutes.	<input type="checkbox"/>	I can explain why different substances and different conditions will have different R_f values.	<input type="checkbox"/>
	I can describe how to calculate R_f values.	<input type="checkbox"/>	I can calculate R_f values from given data.	<input type="checkbox"/>	I can calculate R_f values from a chromatogram, using an appropriate number of significant figures.	<input type="checkbox"/>
	I can describe a use of chromatography.	<input type="checkbox"/>	I can use a chromatogram to determine if a sample is pure or impure.	<input type="checkbox"/>	I can interpret a chromatogram to identify unknown substances.	<input type="checkbox"/>
C10.3 Testing for gases	I can safely carry out the laboratory test for hydrogen, oxygen, carbon dioxide, and chlorine.	<input type="checkbox"/>	I can explain why limewater turns milky when it reacts with carbon dioxide.	<input type="checkbox"/>	I can write balanced symbol equations, including state symbols, for the reactions of limewater with carbon dioxide and hydrogen with oxygen.	<input type="checkbox"/>
	I can describe how to safely carry out the laboratory test for chlorine gas.	<input type="checkbox"/>	I can interpret results to identify a gas that is present.	<input type="checkbox"/>	I can explain why a glowing splint re-ignites in oxygen.	<input type="checkbox"/>
	I can identify hydrogen, carbon dioxide, and oxygen from a laboratory test.	<input type="checkbox"/>	I can explain why hydrogen ‘pops’ near a naked flame.	<input type="checkbox"/>	I can explain why chlorine gas turns damp indicator paper colourless.	<input type="checkbox"/>