Unit Title	Elements and compounds				
Subject group and discipline	Science	MYP year	1	Unit duration (hrs)	18

Inquiry: Establishing the purpose of the unit

Key concept	Related concept(s)	Global context choose 1 and then drill down to exactly which aspect of these the unit will focus on			
Relationships	Form	Scientific and technical innovation			
Statement of inquiry					
Relationships can develop between different forms which are investigated through scientific and technical innovation					
Inquiry questions					
Factual—					
What is an element, compound and mixture?					
What is a solute, solvent and solution?					
Name key scientific equipment used to separate mixtures.					
What do the symbols and numbers mean in the formula for a compound?					
Conceptual—					
What is the difference between a chemical and physical change?					
Describe what happens to a solid when it dissolves using key words such as solute, solvent and solution.					
Describe how to separate mixtures into their different components using techniques such as filtration, evaporation and chromatography.					
Debatable—					
Is the periodic table the best way of arranging the elements?					
Is clear water always pure water?					

Summative assessment		
Outline of summative assessment task(s) including assessment criteria:	Relationship between summative assessment task(s) and statement of inquiry:	
Goal: to show understanding of practical techniques learnt and an ability to interpret the results of these techniques.	Students will demonstrate they know how relationships can be investigated by planning a scientific method	
Role: Forensic Scientist		
Audience: Findings report for police		
Situation: Investigating a crime		
Produce a document outlining who committed the crime and give reasons using evidence from the information provided.		
Standards and criteria		
A i outline scientific knowledge		
D ii describe and summarise the various implications of using science and its application in solving a specific problem or issue.		
Working scientifically:		
Write a method for how to investigate how temperature affects the time for a solute to dissolve. B iii, Biv and Cv		
Exam Question: interpreting chemical formulae using the periodic table.		
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Thinking	
Communication	
Social	
Research	
Self management	