Access to H.E. National Programme Unit



Unit Title:	Periodicity					
Graded Unit Code:	GA33CHE14	Ungraded Unit Code:	UA33CHE14			
Pathway(s):	Science and Engineering					
Module(s):	Chemistry					
Level:	3	Credit Value:	3			
Valid from:	1 st August 2019	Valid to:	31 st July 2028			

The following QAA grade descriptors must be applied if you are delivering the graded version of this unit:

1	Understanding of the subject
3	Application of skills
7	Quality

LEARNING OUTCOMES		ASSESSMENT CRITERIA	
The learner will:		The learner can:	
1.	Know the trends in physical and chemical properties of the elements in period 3 of the periodic table	1.1	Describe the trends in atomic radius, first ionisation energy and melting points of the period 3 elements
		1.2	Explain the trends in atomic radius and first ionisation energy of the period 3 elements
		1.3	Explain the trend in melting point of the period 3 elements
		1.4	Write equations for the reactions of the oxides of period 3 elements with water, a strong acid and/or a strong base, where appropriate
		1.5	Describe the trend in acid-base behaviour of the period 3 oxides
2.	Know the trends and patterns of the elements in group 1 and group 7 (17) of the periodic table	2.1	Describe and explain the variation of atomic radius, first ionisation energy and electronegativity of group 1 elements

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LEARNING OUTCOMES	ASSESSMENT CRITERIA	
The learner will:	The learner can:	
	2.2 Describe the reactions of group 1 elements with water and use these reactions to explain the trend in reactivity of group 1 elements	
	2.3 Describe and explain the variation of atomic radius, first ionisation energy, electronegativity and melting point of group 7 (17) elements	
	2.4 Perform displacement experiments between group 7 (17) elements with halide salt solutions	
	2.5 Describe and explain the variation in oxidising powers of group 7 (17) elements	