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:	1st August 2019	Valid to:	31st 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

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