

Subject: Applied Science (BTEC National Level 3)

Content Delivered Core knowledge		Content Delivered Core knowledge		Content Delivered Core knowledge	
Autumn 1 September – October	Autumn 2 November – December	Spring 1 January - February	Spring 2 March - April	Summer 1 April - May	Summer 2 June-July
Key Curriculum Skills:	Key Curriculum Skills:	Key Curriculum Skills:	Key Curriculum Skills:	Key Curriculum Skills:	Key Curriculum Skills:
AO1 Demonstrate knowledge of scientific facts, terms, definitions and scientific formulae Command words: give, label, name, state Undertake calorimetry to study cooling curves	AO2: Demonstrate understanding of scientific concepts, procedures, processes and techniques and their application Command words: calculate, compare, discuss, draw, explain, state, write Maths Skills Undertake titration and colorimetry to determine the concentration of solutions	AO3 Analyse, interpret and evaluate scientific information to make judgements and reach conclusions Command words: calculate, comment, compare, complete, describe, discuss, explain, state AO4 4 Make connections, use and integrate different scientific concepts, procedures, processes or techniques Command words: comment, compare, complete, discuss, explain Undertake chromatographic techniques to identify components in mixtures	All AO's Exam Technique Review personal development of scientific skills for laboratory work	All AO's Revision Skills Exam Technique skills	The mock exams will measure how students have achieved the previously mentioned assessment objectives. AO1 AO2 AO3 Maths Skills Revision Skills Exam technique Skills
Key Knowledge (Cultural Capital and Content):	Key Knowledge (Cultural Capital and Content):	Key Knowledge (Cultural Capital and Content):	Key Knowledge (Cultural Capital and Content):	Key Knowledge (Cultural Capital and Content):	Key Knowledge (Cultural Capital and Content):
Transition Cells/Waves Unit 1 A1 Atomic Structure A1 Bonding	Unit 1 A1 amount of substance A2 Chemical reactions A2 Periodic trends	Unit 1 B1/B2 Cells B3 Tissues	Unit 1 C1 Wave structure C2/C3 Waves in Communication	Revision	Unit 8 Coursework Anatomy

Unit 2 Coursework B - cooling curves	Unit 2 Coursework A - titrations	Unit 2 Coursework C - Chromatography	Unit 2 Coursework D – reflective log		
Assessment:	Assessment:	Assessment:	Assessment:	Assessment:	Assessment:
Coursework B Bonding Exam Q	Coursework A Calculations Exam Q Chemistry test	Coursework C Tissues Exam Q Biology Test	Coursework D Biology/Chemistry tests Waves exam Q	External Testing	Digestion coursework draft
Literacy Curriculum:	Literacy Curriculum:	Literacy Curriculum:	Literacy Curriculum:	Literacy Curriculum:	Literacy Curriculum:
Communicate information and ideas in appropriate ways using appropriate terminology	Comment on experimental design and evaluate scientific methods communicate information and ideas in appropriate ways using appropriate terminology	Communicate information and ideas in appropriate ways using appropriate terminology in an examination situation	Comment on experimental design and evaluate scientific methods communicate information and ideas in appropriate ways using appropriate terminology	Comment on experimental design and evaluate scientific methods communicate information and ideas in appropriate ways using appropriate terminology	Communicate information and ideas in appropriate ways using appropriate terminology in an examination situation.
Home Learning	Home Learning	Home Learning	Home Learning	Home Learning	Home Learning
Application of key knowledge from lessons applied to exam questions and completion of coursework write ups	Application of key knowledge from lessons applied to exam questions and completion of coursework write ups	Application of key knowledge from lessons applied to exam questions in a mock exam situation	Application of key knowledge from lessons applied to exam questions and completion of coursework write ups	Application of key knowledge from lessons applied to exam questions and completion of coursework write ups	Application of key knowledge from lessons applied to exam questions and completion of coursework write ups