BTEC Applied Science - Curriculum Overview

Year 12

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Unit 1 Principles and Applications of Science Structure and function of cells and tissues Waves and communication	Unit 1 Principles and Applications of Science Waves and communication Periodicity and properties of elements	Unit 3 Science Investigation Skills Enzymes in action Diffusion of molecules Electrical circuits	Unit 3 Science Investigation Skills Plants and their environment Energy content of fuels	Unit 3 Science Investigation Skills	Unit 2 Science Investigation Skills
Assessment & End Points:	Exampro questions throughout the lessons Skills based assessments for practical's and application of knowledge to exam style questions. EOT (assessments 30 minutes)	Exampro questions throughout the lessons Skills based assessments for practical's and application of knowledge to exam style questions. EOT (assessments 30 minutes)	Unit 1 External exam Unit 3- Exampro questions throughout the lessons Skills based assessments for practical's and application of knowledge to exam style questions. EOT (assessments 30 minutes)	Exampro questions throughout the lessons Skills based assessments for practical's and application of knowledge to exam style questions. EOT (assessments 30 minutes)	External examination of Unit 3.	Skills based assessments for practical's

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Year 13

Topics:Unit 2 – Practical Scientific Procedures and applicationsUnit 8 – Physiology of human body systemsUnit 8 – Physiology of human body systemsUnit 8 – Physiology of ApplicationsProcedures and applicationsProcedures and applicationsDit 8 – Physiology of B1 Structure of the Unit 8 – Physiology ofB1 Structure of the digestive systemUnit 8 – Physiology of unit 8 – Physiology of human body systemsB1 Structure of the B2 Function of the Unit 8 – Structure of the B2 Function of theC2 Function of the digestive system	Topics:
Procedures and applicationsProcedures and applicationsProcedures and applicationshuman body systemshuman body systemsUnit 8 – Physiology of human body systemsB1 Structure of the lymphatic systemC1 Structure of the digestive systemC2 Function of the digestive systemMarch 2014March 2014Marc	
applicationsapplicationsapplicationsDirit 8 - Physiology ofB1 Structure of theC1 Structure of thehuman body systemslymphatic systemdigestive systemA1 Structure of theB2 Function of theC2 Function of themusculoskeletal systemlymphatic systemdigestive system	
Unit 8 - Physiology of human body systemsB1 Structure of the lymphatic systemC1 Structure of the digestive systemA1 Structure of the musculoskeletal systemB2 Function of the lymphatic systemC2 Function of the digestive system	
human body systemslymphatic systemdigestive systemA1 Structure of theB2 Function of theC2 Function of themusculoskeletal systemlymphatic systemdigestive system	
A1 Structure of the B2 Function of the C2 Function of the musculoskeletal system lymphatic system digestive system	
musculoskeletal system lymphatic system digestive system	
A2 Function of B3 Health matters and C3 Health matters and	
musculoskeletal system treatments related to the treatments related to the	
A3 Disorders of the lymphatic system digestive system	
musculoskeletal system	
Assessment & End Points: Assignment completion Assignment completion Assignment completion Assignment completion	Assessment & End Points:
A. Undertake titration and C. Undertake C. Undertake B. Understand the impact C. Explore the physiology	
colorimetry to determine chromatographic D. Review personal of disorder on the of the digestive system	· · · · · · · · · · · · · · · · · · ·
concentration of solutions techniques to identify developments of scientific physiology of the and the use of corrective	· · · · · · · · · · · · · · · · · · ·
B. Undertake Calorimetry components of mixtures. skills for laboratory work. lymphatic system and the treatments for dietary	
to study cooling curves associated corrective related diseases.	1
Learners will ensure that Assignment completion treatments. A lab book/record of	
Learners will ensure that their assignment is A. Understand the impact Research work using the investigations modelling	
their assignment is complete and then work of disorders of the internet and TV the functioning of the	1
complete and then work on their skills musculoskeletal systems documentaries to help various parts of the	· · · · · · · · · · · · · · · · · · ·
on their skills diaries/logbooks, seeking and their associated learners in creating a digestive system.	· · · · · · · · · · · · · · · · · · ·
diaries/logbooks, seeking feedback from you and corrective treatments presentation that Photographs and	· · · · · · · · · · · · · · · · · · ·
feedback from you and comment from their Learners would use describes and explains the information from the	
comment from their peers. Information gained from structure and function of investigations will be used	· · · · · · · · · · · · · · · · · · ·
peers. research, visits, the lymphatic system in to create an information	
dissections/videos, models promoting a healthy body. Teallet that explains the	
and simulations to An evaluative case study Tole and evaluates distance	
produce an inustrated of the effect of a and evaluates dietary	
apply sing the structure the system and pessible treatments	
analysing the structure the system and possible treatments.	
and function of the treatments must be Observation records of	
An evaluation of a related	
disorder/dustingtion of	
the system and associated required. Evidence and	
the system and associated required. Evidence and	
included investigations will be	
included.	
information leaflet	

