

Year 13 Btec

Unit	Description	Unit in brief	GLH	Details of assessment
Unit 1	Principles and application of science 1	This unit covers some of the key science concepts in biology, chemistry and physics	90	External exam – set and marked by Pearson Three separate papers 30 marks each = total 90 Exam sat in January year 13
Unit 2	Practical Scientific Procedures and Techniques	Learners will be introduced to quantitative laboratory techniques, calibration, chromatography, calorimetry and laboratory safety, which are relevant to the chemical and life science industries	90	Internal Assessment ongoing throughout the year
Unit 3	Science investigation skills	Learners will cover the stages involved and the skills needed in planning a scientific investigation: how to record, interpret, draw scientific conclusions and evaluate.	120	<ul style="list-style-type: none"> • A task set and marked by Pearson and completed under supervised conditions. • The supervised assessment period is arranged over 9 days timetabled by Pearson. • The scenario and practical investigation in Part A is given to learners 8 days before Part B is scheduled and is undertaken under supervision in a single session of 3 hours. • Part B is a set task that is undertaken under supervision in a single session of 1.5 hours timetabled by Pearson on the ninth day. • 60 marks. Exam in May
Unit 10	Biological Molecules and Metabolic Pathways	This unit covers biological molecules and the metabolic pathways involved in chemical reactions to enable organisms to function normally.	60	Internal Assessment ongoing throughout the year

How am I getting on?

Points available for internal units

	Unit size	
	60 GLH	90 GLH
U	0	0
Pass	6	9
Merit	10	15
Distinction	16	24

Points available for external units

	Unit size	
	90 GLH	120 GLH
U	0	0
Near pass	6	8
Pass	9	12
Merit	15	20
Distinction	24	32

You MUST pass unit 1 in order to achieve a grade

Quick check to see how you are achieving after year 13

Grade	Points threshold
U	0
P	36
M	52
D	74
D*	90

Year 14

Unit	Title	Unit in brief	GLH	Details of assessment
Unit 4	Laboratory Techniques and their application	This unit covers the importance of health and safety in workplace laboratories, how data is stored and communicated and how organic liquids and solids are made and tested industrially	90	Internally assessed – ongoing throughout the year
Unit 5	Principles and application of science 2	This unit builds on and extends the range of key science concepts in biology, chemistry and physics that were covered in Unit 1:	120	External exam – set and marked by Pearson Three separate papers 40 marks each = total 120 Exam sat in January year 14
Unit 6	Investigative project	This unit enables learners to gain an understanding and the skills required to undertake an investigative project,	90	Internal – completed after unit 5
Unit 8	Physiology of Human Body Systems	Learners will focus on the physiological make up of three human body systems (musculoskeletal, lymphatic and digestive), how the systems function and what occurs during dysfunction.	60	Internal assessment – ongoing throughout the year

Year 14 overall award – you must pass unit 5 to achieve an overall grade:

Grade	Points threshold
U	0
PP	72
MP	88
MM	104
DM	124
DD	144
D*D	162
D*D*	180

Know what you need: Some courses will ask for an overall award, some will ask for a certain amount of Guided Learning Hours (GLH) at a specific level.

<https://qualifications.pearson.com/en/qualifications/btec-nationals/applied-science-2016.html>