



National Mock Exams 2025

POWERED BY **ExamSimulator**

BTEC NATIONALS SPORT AND EXERCISE SCIENCE UNIT 2 (Functional Anatomy)

Please read before distributing to students.

Purpose of this document

The questions contained within this document and the associated mark scheme are based on the data analysis performed by The EverLearner Ltd. Please note the following:

- We believe this paper has a very strong association with the actual external exam in 2025 in relation to command terms, skills, AO distribution, extended-writing requirements and topics.
- However, this is categorically NOT a predicted paper. No one can accurately predict an exam paper and we make no claim to this end.
- It is vital that you only use this document internally in your school/college. Publishing the document online or sharing it in any other way is strictly prohibited, as this will undermine the potential educational experiences of students in other schools/colleges.
- Finally, please use this paper together with the mark scheme and make sure you attend the revision session in April.

This paper contains:

- Questions in the format of the BTEC Level 3 Sport and Exercise Science Unit 2 Functional Anatomy exam
- Short-answer questions
- Extended writing

How should schools use these papers?

This paper has been constructed specifically for use as a mock exam but can be used less formally as a practice paper or model paper. The content and skills of the paper will be developed within the revision sessions offered by James Simms on Tuesday 29th of April 2025 at 17:00 (available to all subscribing schools live and on demand; a shorter version for non-subscribers will be available on YouTube after the live session).

This paper is available to be set, answered and marked online via [ExamSimulator](#). [ExamSimulator](#) is a premium resource available via TheEverLearner.com and provides immediate diagnostics of student writing performance after every exam answer. [Get in touch with us](#) to start a free trial.

James Simms



Subject	Physical Education
Course	BTEC Level 3 Sport & Exercise Science: Unit 2 Functional Anatomy
Time allowed	1 hour 30 minutes

First name	
Last name	
Class	
Teacher	

Title	BTEC Sport & Exercise Science Level 3 Unit 2 NME 2025
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Guidance	<ul style="list-style-type: none">• This paper is marked out of 60 marks.• You have 90 minutes (plus additional time for those who have Exam Access Arrangements).• Answer all questions.• A calculator is permitted for this exam.• This paper contains two 8-mark questions and one 14-mark question.• If the timer reaches zero prior to you submitting your paper, the software will automatically submit your responses.• Good luck.
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Total marks	60
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1. State **three** features of compact bone.

Feature 1: _____

Feature 2: _____

Feature 3: _____

Marks: **[3]**

2. Identify **three** features of the alveoli that make them suitable for gaseous exchange.

Feature 1: _____

Feature 2: _____

Marks: **[3]**

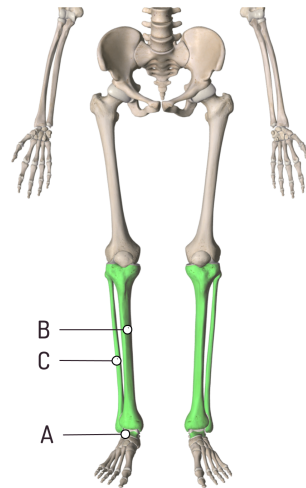
3. Describe the function of the pleura and the epiglottis.

Pleura: _____

Epiglottis: _____

Marks: **[2]**

4. Identify the bones highlighted in the image that form the ankle joint.



A: _____
B: _____
C: _____

Marks: [3]

5. Describe what is meant by the following four anatomical descriptions:

Prone

Lateral

Proximal

Posterior

Prone: _____

Lateral: _____

Proximal: _____

Posterior: _____

Marks: [4]

6. Identify a flat bone and describe its role when playing football.

Marks: **[2]**

7. Identify a short bone and describe its role when boxing.

Marks: **[2]**

8. Describe neural control of the cardiac cycle.

Marks: **[4]**

9. Explain why type IIa muscle fibres are considered the most crucial to a 200m swimmer.

Marks: **[3]**

10. Describe the term tuberosity.

Marks: **[1]**

11. Describe the diastolic phase of the cardiac cycle.

Marks: **[3]**

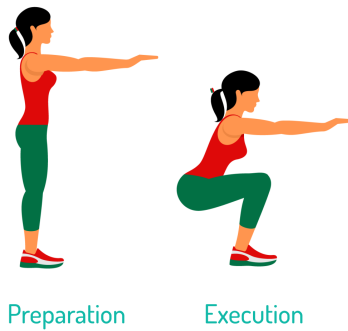
Handwriting practice lines consisting of 30 sets of three horizontal dashed lines.

13. Analyse how the axial and appendicular **skeletons** allow the movement necessary at the:

Right knee

Right hip

Trunk



Handwriting practice lines consisting of multiple horizontal dashed lines for text entry.

Handwriting practice lines consisting of 30 horizontal dashed lines.

Marks: **[8]**

14. Look closely at this image. Analyse the movement when the goalkeeper **moves from** phase A to phase B at the:

Shoulder

Hip

Ankle



Position A



Position B

This image shows a full page of handwriting practice paper. It features multiple sets of horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no margins or additional markings.

Handwriting practice lines consisting of 30 sets of three horizontal dashed lines for tracing and letter formation.

Marks: [14]