

National Mock Exams 2025

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OCR A-level PE - Paper 1

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, A0 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 May.

This paper contains:

- Questions in the format of the OCR A-level PE Paper 1 2025
- 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 Thursday 8th of May 2025 at 15:30 (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	OCR Linear GCE PE Physiological Factors
Time allowed	2 hours

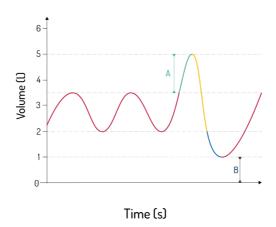
First name	
Last name	
Class	
Teacher	

Title	OCR A-level (H555) Paper 1: Physiological Factors National Mock Exam 2025
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Guidance	 This paper is marked out of 90 marks. You have 120 minutes (plus additional time for those who have Exam Access Arrangements). Answer all questions. A calculator is permitted for this exam. This paper contains one 20-mark question. If the timer reacher zero prior to you submitting your paper, the software will automatically submit your responses. Good luck!
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Total marks

1. Look closely at this image of a spirometer trace. Identify lung volumes A and B.



A is:	
	Marks: [2]
2. Identify two features of a goniometer test for flexibility.	
Feature 1:	
Feature 2:	

า
: [2]
: [2]

5. This image shows a lever arm illustrated onto an ankle performing plantar flexion. Describe the position of two of the missing lever components.
Lever arm

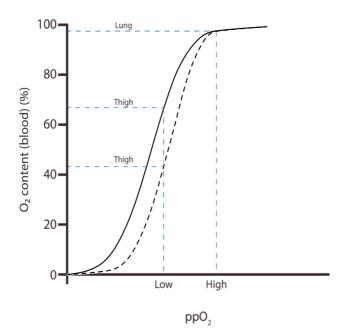
6. Describe the production of					li.	
						Marks: [4]
7. Look closely at the Analyse the movement	_	•				e.
			Right hip		1	
	Phase	Joint action	Agonist	Type of contraction		
	1-2	А	В	С		
	2-1	D	E	F		
A is: B is: C is:						

Marks: [6]

8. The glycolytic system is the most beneficial energy system to a 200m swimmer. Justify this statement.									

Marks: [6]

9. Look closely at this image. Explain why the solid and dashed plots are different.



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Marks: [4]

10. Creatine supplements and carbo-loading are nutritional ergogenic ai Compare their use for a 100m sprinter.	ds.
	Marks: [5]
11. Describe the one-repetition maximum test for strength.	
11. Describe the one repetition maximum test for strength.	
	Marke, [2]

12. Describe PNF stretching.	
	Marks: [4]
13. Explain why endurance runners have a high tendence injuries.	y to experience chronic
	Marks: [2]
14. Explain how a sprained ankle should be treated.	

15. Analyse the impact of long-term exercise on lifestyle diseases related to the cardiovascular system.					the		
						Ма	rks: [4]
16. Explain w in track-and	-	_	wton's sec	cond law is	s beneficia l	to a high ju	mper

17. Describe the balance of vertical forces for a high jumper a off.	
	Marks: [3]
18. Using your knowledge of the centre of mass, explain why a likely to use a Fosbury flop technique.	an elite high jumper is

9. Describe the factors affecting the air resistance of a fast-moving projectile sport.	e in
Mar	ks: [4]
20. Table tennis players often use backspin when they are out of position during ally. Explain how they achieve this.	ng a
rally. Explain how they achieve this.	
rally. Explain how they achieve this.	

Marks: [5]

recover from the energy release. Explain how the mechanics of breathing change to help an anaerobic athlete
recover.
Analyse the flight path of a well-put shot.

21.. After a track-and-field athlete puts a shot, their breathing helps them to

