

Revision 2025

IGCSE GCSE PE Student Notes



Recommended



Before the revision session

Complete the 2025 National Mock Exam Essential



During the revision session

Complete the notes

Recommended



After the revision session

Review with your teacher



Hot Topic 9: Aerobic and anaerobic respiration



	Duration	la bana iba	Examples		
		Intensity	Basketball	Badminton	Marathon
Aerobic respiration	Longer	Lower	Playing a defensive position in a zone defence when the ball is on the other side of the court.	During a long, slower rally from the back of the court. *	Maintaining a steady pace throughout the full marathon distance.
Anaerobic respiration	Shorter	Higher	Making a high-intensity, fast break down the court.	A quick sprint to retrieve a drop shot.	Making a quick sprint to the finish line in order to beat an opponent into first place.

* (Hannah will talk about this in the live session)

Technically, the question below is from a different section, but it is worth considering based on what we just learned:

4. Describe how a performer repays oxygen debt after anaerobic exercise. , by continuing to breathe at a _____ than at rest and also keeping _____ resting levels. Marks: [2]



Hot Topic 7: Muscle fibre types

How many marks would you award this answer?

26. Identify one named feature of fast-twitch muscle fibres and explain how it would benefit the following performers: Marathon runner			
100m sprinter			
High jumper			
Feature of fast twitch fibre: <i>Low fatigue resistance</i> Marathon runner: <i>Support slow twitch muscle fibres when they are able to.</i>			
100m sprinter: <i>Doesn't have an impact.</i>			
High jumper: <i>Doesn't have an impact.</i>			
Marks: 4			

Could you rewrite the answers to improve them?

Fibre type	Features	Justify the role within a named sport
Slow	Aerobic High fatigue resistance Low force and speed of contraction	Because
Fast	Anaerobic Low fatigue resistance High force and speed of contraction	Because



Hot Topic 3: Gaseous exchange



Let's use these ideas to answer the question that follows:

Structure of alveoli	Impact on rate of diffusion	
High concentration of oxygen		
Numerous - large surface area		
One-cell thick		
Surrounded by capillaries		
Moist, warm environment		

7. Suggest features of the alveoli that benefit a triathlete during the process of
gas exchange.

Large of the alveoli cause the diffusion rate to increase. The that surround the alveoli also promote					
diffusion. They also provide	to maintain				
the diffusion gradient. Finally, they are	, which means the				
·					
	Marks: [4]				



