

Combined Science - Biology - Key Stage 4

Consequences of Anaerobic Respiration - Higher Tier

Miss Strmec



Independent Practice

Exam Style Question

Jane is a 100m sprinter. At the end of her race the muscles in her legs feel tight and sore. Using your knowledge of anaerobic respiration explain why Jane feels this way.

(3 marks)

Hints!

During Jane's 100m sprint she was respiring...

The product of this type of respiration is...

...this causes...



Independent Practice

Exam Style Question Part 2

Explain to Jane what is happening in her body after her 100m sprint is over. Include information about the process of oxidation of the lactic acid waste. (3 marks)

Hints!

Where does oxidation take place?

What does the lactic become?

What do we call the amount of oxygen needed for this process?



Independent Practice

Fill in the blanks:

After anaerobic respiration the waste product, lactic acid is sent to the l_____. The h_____rate stays high and your breathing is d_____. Deep breathing allows more o_____ to flow to the liver for oxidation. Increased heart rate means that blood is transported faster meaning more c_____ d_____ can travel to the alveoli to be exhaled from the body.

