

Edexcel Biology

International A-level

CP 17 - Effects of exercise

Flashcards



What is the function of a spirometer?



What is the function of a spirometer?

Measures breathing rate and lung capacity.



How is tidal volume found using a spirometer?



How is tidal volume found using a spirometer?

It is the distance from peak to trough when the participant is breathing normally.



How is vital capacity found using a spirometer?



How is vital capacity found using a spirometer?

The distance from peak to trough when the participant takes a forced deep breath.



How is respiratory minute ventilation found?



How is respiratory minute ventilation found?

Breathing rate x Tidal volume



What happens to the tidal volume, vital capacity, breathing rate and respiratory minute ventilation after exercise?



What happens to the tidal volume, vital capacity, breathing rate and respiratory minute ventilation after exercise?

Tidal volume increases, vital capacity stays the same, breathing rate increases, respiratory minute ventilation increases.



What are the ethical concerns of this practical?



What are the ethical concerns of this practical?

Informed consent of the participant must be obtained, and the participant should be able to stop at any time during the practical.

