

Edexcel Biology IGCSE

2.f - Respiration

Flashcards



What is the purpose of respiration?



What is the purpose of respiration?

To produce energy in the form of ATP from larger molecules (like sugars).



What type of reaction is respiration?



What type of reaction is respiration?

Respiration is an exothermic reaction



When does aerobic respiration take place?



When does aerobic respiration take place?

When there is plenty of oxygen available.



What is the symbol equation for aerobic respiration?



What is the symbol equation for aerobic respiration?



When does anaerobic respiration take place?



When does anaerobic respiration take place?

When there is no oxygen available



What does anaerobic respiration in animals produce?



What does anaerobic respiration in animals produce?

Lactic acid and energy



Which type of respiration produces more
ATP?



Which type of respiration produces more ATP?

Aerobic respiration which produces 36 ATP compared to anaerobic respiration which produces only 2 ATP.



What is the oxygen debt?



What is the oxygen debt?

The extra oxygen that is needed to break down the lactic acid formed in anaerobic respiration.

