

Respiration

What does exothermic mean?

Respiration

What is cellular respiration?

Respiration

Write the word equation for aerobic respiration.

Respiration

Write the symbol equation for aerobic respiration.

Respiration

What is anaerobic respiration in animal cells?

Respiration

What is anaerobic respiration in plant cells and yeast?

Respiration

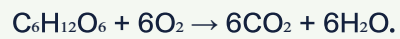
Which releases more energy per glucose, aerobic or anaerobic respiration?

Respiration

Which type of respiration needs oxygen?

An exothermic reaction which occurs continuously in living cells to release energy for metabolic processes.

A reaction that transfers energy to the surroundings.



Glucose + oxygen → carbon dioxide + water.

Glucose → ethanol + carbon dioxide, without oxygen.

Glucose → lactic acid, without oxygen.

Aerobic respiration.

Aerobic respiration, because glucose is completely broken down.

Respiration

What does a respirometer measure?

Respiration

Why is soda lime used in a respirometer?

Respiration

In a respirometer, which way does the coloured liquid move and why?

Respiration

Name two control variables in the respirometer investigation.

To absorb the carbon dioxide produced, so the change in gas volume is due to oxygen used up.

The rate at which a living organism takes in oxygen, shown by the movement of coloured liquid in a capillary tube.

Any two of: mass of organisms, type of organism, time, volume of soda lime.

Towards the organisms, because the volume of gas falls as oxygen is used up.