
QUESTION: WHY DO ORGANISMS NEED FOOD?

ANSWER: ORGANISMS NEED FOOD FOR OBTAINING ENERGY TO PERFORM VITAL FUNCTIONS.

Topic: Respiration

QUESTION: WHAT IS RESPIRATION?

ANSWER: RESPIRATION IS THE BREAKDOWN OF ORGANIC COMPOUNDS INTO SIMPLER COMPOUNDS ACCOMPANIED BY THE RELEASE OF ENERGY IN THE FORM OF ATP.

Topic: Respiration

QUESTION: NAME SOME RESPIRATORY SUBSTRATES. WHICH OF THEM IS MOST COMMONLY USED?

ANSWER: CARBOHYDRATES, FATS, PROTEINS. GLUCOSE, A CARB, IS MOST COMMON.

Topic: Respiration

QUESTION: DIGESTION PROVIDES THE BODY WITH?

ANSWER: RESPIRATORY SUBSTRATE I.E. GLUCOSE

Topic: Respiration

QUESTION: BREATHING OUT EXCRETES (GETS RID OF) THIS WASTE GAS FROM RESPIRATION?

ANSWER: CARBON DIOXIDE

Topic: Respiration

QUESTION: HOW DOES FOOD YIELD ENERGY?

ANSWER: FOOD IS BROKEN DOWN WITH THE HELP OF VARIOUS ENZYMES IN THE CELLS. THIS LIBERATES ENERGY.

Topic: Respiration

QUESTION: WHAT IS A RESPIRATORY SUBSTRATE?

ANSWER: THE SUBSTANCE USED BY THE CELL TO DERIVE ENERGY.

Topic: Respiration

QUESTION: WHAT IS THE EQUATION FOR RESPIRATION?

ANSWER: GLUCOSE + OXYGEN --> CARBON DIOXIDE + WATER

Topic: Respiration

QUESTION: BREATHING IN PROVIDES THIS GAS FOR RESPIRATION?

ANSWER: OXYGEN

Topic: Respiration

QUESTION: RESPIRATION TAKES PLACE IN?

ANSWER: EVERY LIVING CELL (MITOCHONDRIA)

Topic: Respiration

QUESTION: WHAT IS AEROBIC RESPIRATION?

ANSWER: OCCURS WHEN OXYGEN IS PRESENT - REACTS WITH GLUCOSE TO RELEASE ENERGY.

Topic: Respiration

QUESTION: WHERE DOES AEROBIC RESPIRATION TAKE PLACE?

ANSWER MITOCHONDRIA

Topic: Respiration

QUESTION: WHAT ARE THE 7 KEY LIFE PROCESSES?

ANSWER: MRS GREN

Topic: Respiration

QUESTION: WHY IS ANAEROBIC LESS USEFUL THAN AEROBIC RESPIRATION?
ANSWER: LESS ENERGY PROVIDED. LACTIC ACID RELEASED.

Topic: Respiration

QUESTION: WHAT IS THE ADVANTAGE OF INCREASED BREATHING RATE DURING EXERCISE?
ANSWER: EXCRETE CO₂ PRODUCED MORE QUICKLY. O₂ IN QUICKER.

Topic: Respiration

QUESTION: WHAT IS ANAEROBIC RESPIRATION?

ANSWER: DOES NOT REQUIRE OXYGEN. OCCURS WHEN OXYGEN IS NOT ABUNDANT. LACTIC ACID IS PRODUCED.

Topic: Respiration

QUESTION: WHERE DOES ANAEROBIC RESPIRATION TAKE PLACE?

ANSWER: IN CYTOPLASM OF CELL.

Topic: Respiration

QUESTION: DESCRIBE 3 CHANGES THAT TAKE PLACE WHEN YOU START EXERCISING?

ANSWER: HEART AND BREATHING RATE GO UP. ARTERIES DILATE (GET BIGGER).

Topic: Respiration

QUESTION: WHAT HAPPENS TO LACTIC ACID?
ANSWER: IT IS OXIDISED TO CARBON DIOXIDE AND WATER - OXYGEN DEBT REPAYED.

Topic: Respiration

QUESTION: WHAT IS ADVANTAGE OF INCREASED HEART RATE DURING EXERCISE?
ANSWER: FASTER TRANSPORTATION OF GLUCOSE AND OXYGEN TO CELLS. SAME FOR EXCRETION.

Topic: Respiration

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