Respiration

IGCSE Biology · Vocabulary in context

Word	Example
respiration /ˌrespɪˈreɪʃn/	**Respiration** releases energy from glucose.
energy /ˈenədʒi/	Food gives your body the **energy** it needs to move.
muscle /ˈmʌsl/	Your heart is made of **muscle**.
protein synthesis /ˈprəʊtiːn ˈsɪnθəsɪs/	**Protein synthesis** happens at the ribosomes.
division /dɪˈvɪʒn/	Cell **division** makes two new cells from one.
active transport /ˈæktɪv ˈtrænspɔːt/	**Active transport** uses energy to move ions into root cells.
nerve impulses /nɜːv ˈɪmpʌlsɪz/	**Nerve impulses** need energy from respiration.
temperature /ˈtemprɪtʃə/	The thermometer shows the water's **temperature**.
yeast /jiːst/	**Yeast** makes bread rise.
carbon dioxide /ˈkɑːbən daɪˈɒksaɪd/	We breathe out **carbon dioxide**.
water bath	Heat the test tube in a **water bath** at 80 °C. 80 °C
variables /ˈveərɪəblz/	Light and temperature are **variables** in this experiment.
enzymes /ˈenzaɪmz/	**Enzymes** speed up reactions in the body.
optimum /ˈɒptɪməm/	Yeast respires fastest at its **optimum** temperature.

exercises.lol exercises.com.cn

Word	Example
denatured /ˈdenətʃəd/	Heat changes the shape of a **denatured** enzyme.
bar chart /bɑː tʃɑːt/	Use a **bar chart** to compare the numbers of each kind of insect.
limewater /ˈlaɪmwɔːtə/	Carbon dioxide turns **limewater** cloudy.
hydrogencarbonate indicator /ˌhaɪdrədʒən ˈkɑːbənət ˈɪndɪkeɪtə/	**Hydrogencarbonate indicator** turns from red to yellow when carbon dioxide is added.
germinating	**Germinating** seeds give off heat as they respire.
control /kənˈtrəʊl/	Use boiled enzyme as a **control**.
aerobic respiration /eəˈrəʊbɪk ˌrespɪˈreɪʃn/	**Aerobic respiration** uses oxygen to release energy from glucose.
oxygen /ˈɒksɪdʒn/	Your cells need **oxygen** to release energy.
nutrient molecules /ˈnjuːtrɪənt ˈmɒlɪkjuːlz/	Glucose and amino acids are **nutrient molecules**.
glucose /ˈgluːkəʊs/	Cells use **glucose** for energy.
mitochondria /ˌmaɪtəˈkɒndrɪə/	**Mitochondria** release energy from food.
anaerobic respiration /ˌænəˈrəʊbɪk ˌrespɪˈreɪʃn/	**Anaerobic respiration** releases energy without oxygen.
ethanol /ˈeθənɒl/	Shake the food with **ethanol** to test for fat.
alcohol /ˈælkəhɒl/	Yeast makes **alcohol** when there is no oxygen.

exercises.lol exercises.com.cn

Word	Example
lactic acid /ˈlæktɪk ˈæsɪd/	Hard exercise makes **lactic acid** in your muscles.
oxygen debt /ˈɒksɪdʒn det/	You keep breathing hard after a race to repay the **oxygen debt**.
heart rate /hɑːt reɪt/	Exercise raises your **heart rate**.
liver /ˈlɪvə/	The **liver** makes bile.

exercises.lol exercises.com.cn