Biological molecules

IGCSE Biology · Vocabulary in context

Word	Example
molecule /ˈmɒlɪkjuːl/	A water **molecule** has two hydrogen atoms and one oxygen atom.
elements /ˈelɪmənts/	Carbon and oxygen are **elements**.
carbohydrates /ˌkɑːbəʊˈhaɪdreɪts/	Bread and rice are rich in **carbohydrates**.
carbon /ˈkɑːbən/	All living things contain **carbon**.
fats /fæts/	Butter and oil are **fats**.
hydrogen /ˈhaɪdrədʒn/	Water contains **hydrogen** and oxygen.
proteins /ˈprəʊtiːnz/	Meat, eggs and beans are rich in **proteins**, which are made from amino acids.
nitrogen /ˈnaɪtrədʒn/	Proteins contain **nitrogen**.
starch /stɑːtʃ/	Potatoes contain a lot of **starch**.
glycogen /ˈglaɪkədʒn/	The liver stores **glycogen**.
cellulose /ˈseljuːləʊs/	Plant cell walls are made of **cellulose**.
glucose /ˈgluːkəʊs/	Cells use **glucose** for energy.
amino acids /əˈmiːnəʊ ˈæsɪdz/	Proteins are made of **amino acids**.
fatty acids /ˈfæti ˈæsɪdz/	A fat is made of glycerol and **fatty acids**.

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glycerol /ˈglɪsərɒl/	A fat molecule contains one **glycerol**.
iodine solution /ˈaɪədiːn səˈluːʃn/	**Iodine solution** turns blue-black with starch.
reducing sugars /rɪˈdjuːsɪŋ ˈʃʊgəz/	Glucose is one of the **reducing sugars**.
Benedict's solution /ˈbenɪdɪkts səˈluːʃn/	**Benedict's solution** turns brick red with glucose.
biuret /ˈbɪjuːrət/	The **biuret** test turns purple with protein.
ethanol /ˈeθənɒl/	Shake the food with **ethanol** to test for fat.
emulsion /ɪˈmʌlʃn/	A cloudy white **emulsion** shows that fat is present.
vitamin /ˈvɪtəmɪn/	Oranges contain **vitamin** C. C
water bath	Heat the test tube in a **water bath** at 80 °C. 80 °C
genetic material /dʒɪˈnetɪk məˈtɪərɪəl/	DNA is the **genetic material** of a cell. DNA
strands /strændz/	DNA has two **strands**. DNA
double helix /ˈdʌbl ˈhiːlɪks/	DNA is shaped like a **double helix**: a twisted ladder. DNA
bases /ˈbeɪsɪz/	DNA has four **bases**: A, T, C and G. DNA A、T、C G
bonds /bɒndz/	Hydrogen **bonds** hold the two strands together.

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