The Practise Ground

Class 7-10 Biology

Photosynthesis

How green plants make their own food

1

$6CO_2 + 6H_2O$

Raw materials

Carbon dioxide from air; water from the soil

2

Light + chlorophyll

Energy source

Chlorophyll in chloroplasts traps sunlight

3

$C_6H_{12}O_6 + 6O_2$

Products

Glucose is the food; oxygen is released

4

Stomata

Gas exchange

Tiny leaf pores; guard cells open and close them

CO_2	H_2O	O_2	Sugar	Light
carbon dioxide	**water**	**oxygen**	**glucose**	**energy**
in	in	out	food	sun

Remember

Overall: carbon dioxide + water + light energy gives glucose + oxygen.

Extra glucose is stored as starch.

Experiment

Test for starch in a leaf: boil, remove chlorophyll in alcohol, add iodine.

Blue-black colour means starch is present.

Think you've got it? Test yourself.

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