

# PHOTOSYNTHESIS

= process where plants make organic food using radiant energy from sunlight.

## ENERGY ABSORPTION (trapping)

↳ main function of leaf = photosynthesis  
→ plant cells containing chlorophyll pigment absorb radiant  $\bar{e}$  from sun.

↳ green pigment in plants responsible for light absorption to provide  $\bar{e}$  for photosynthesis.

\*  $\bar{e}$ ,  $H_2O$  &  $CO_2$  combined to form sugars (glucose) & by-product  $O_2$  released into air.



## RAW MATERIALS

### CHLOROPHYLL

↳ embedded in membranes of thylakoids in the chloroplasts in plant cells

\* Iron required to make chlorophyll

↳ membrane bound sacs which have chlorophyll molecules attached.

\* Magnesium required to make & becomes incorporated into chlorophyll molecule

### → structure of chloroplast + function

\* contain thylakoids

\* granum (g) = thylakoids stacked together in piles

→ light-dependant phase of photosynthesis

occurs on thylakoid/grana membrane

→ chloroplast has dif enzymes which catalyse reactions of light-independent stage of photosynthesis

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**R Bogdan**



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