

# 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  $\text{e}^-$  from sun.

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

\*  $\text{e}^-$ ,  $\text{H}_2\text{O}$  &  $\text{CO}_2$  combined to form sugars (glucose) & by-product  $\text{O}_2$  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  $\text{e}^-$  & 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

# Life Science Grade 11 Caps Study Notes Pdfsdocuments2

**Lingjun Ying**



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