

# PHOTOSYNTHESIS

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

## Light Absorption (trapping)

↳ main function of leaf = photosynthesis

→ plant cells containing chlorophyll II 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

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

↳ membrane bound sacs which have chlorophyll molecules attached.

\* Iron required to make chlorophyll

\* Magnesium required to make  $\text{E}^*$  becomes incorporate into chlorophyll molecule

## STRUCTURE OF CHLOROPLAST + FUNCTION

\* contain thylakoids

\* grana (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 Photosynthesis Practical Memo

**VM Jensen**

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