

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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