

PHOTOSYNTHESIS = ENERGY HARVESTING PROCESS

FLOWER / BUD, STEM, ROOT → major plant structures

SEX. REPRO STRUCTURE = SEED

Key ideas in energy harvest by plants

- leaves harvest light, deliver nutrients downward
- roots send H<sub>2</sub>O upward to fuel photosynthesis (after the rain, for instance)

- this water goes "up" (against gravity) to be split in a cyclic process that results in sugar formation.

plant cell growth: Apical lateral meristem rapidly + / mitotic 1, 2

specialized tissues / differentiated leaves + trunk - mature

Human gene structure

gene structure - general PROMOTER → RED FLAG - tells RNA POLYMERASE

TATA - coding seq - after promoter