

★ **HIGHER TIER ONLY** content is highlighted in blue. Foundation students — focus on the un-highlighted sections.

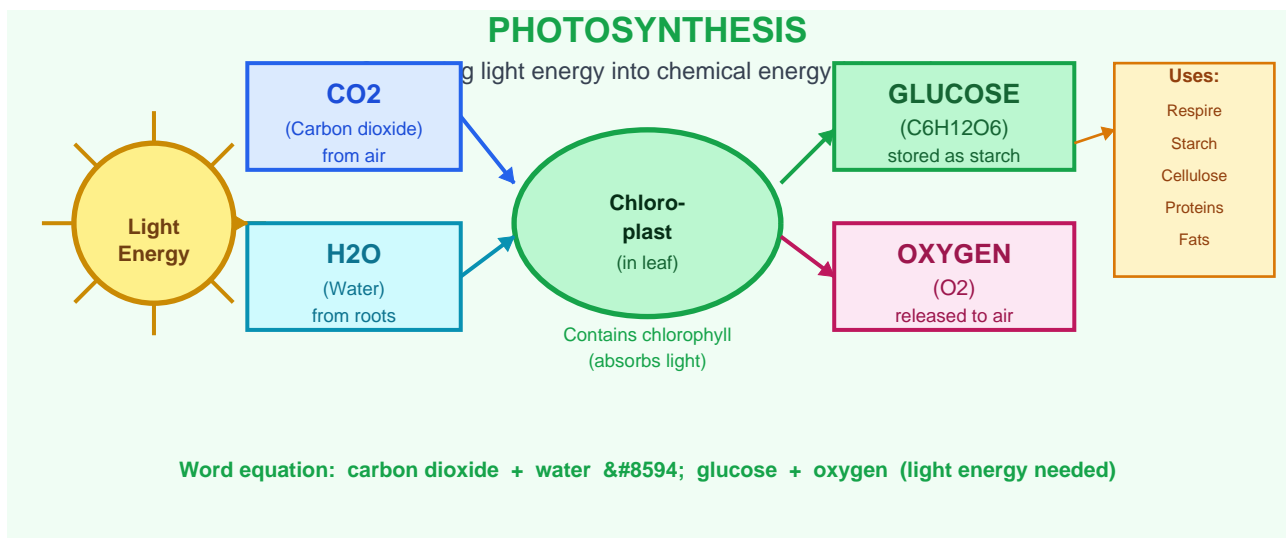


Fig: Photosynthesis summary — inputs, outputs and where it happens

## Transpiration Factors

### Factors that INCREASE transpiration rate

- Higher temperature — water evaporates faster
- Higher light intensity — stomata open wider
- Lower humidity — bigger concentration gradient for water
- Higher wind speed — water vapour blown away from leaves

### Transpiration

Loss of water vapour from leaves through stomata — pulls water up xylem

### Translocation

Movement of dissolved sugars in phloem from SOURCE (leaves) to SINK (roots/fruits)

### Auxin

Plant hormone controlling growth direction — causes phototropism