

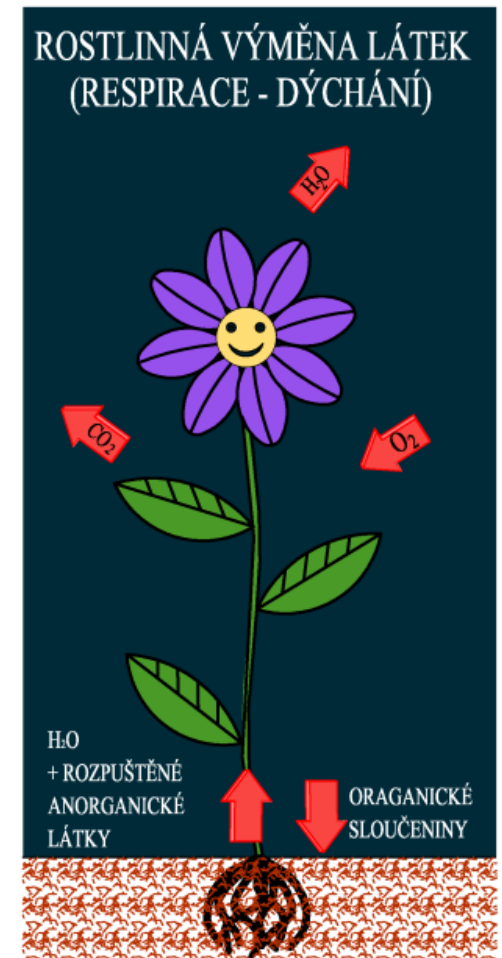
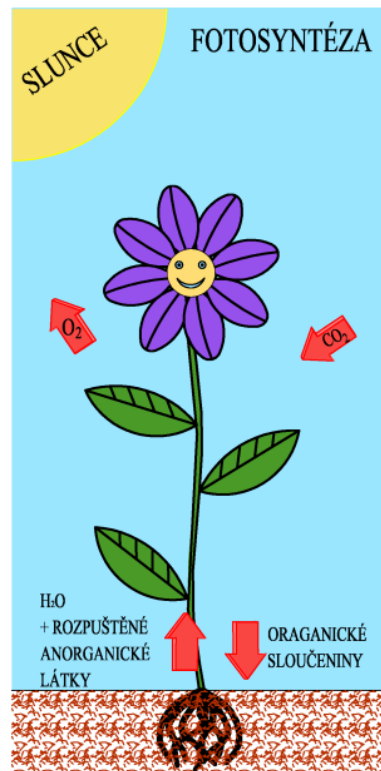
# Fotosyntéza - Dýchání

**Fotosyntéza** = tvorba kyslíku + organických látek

(v organelách **CHLOROPLASTECH**)

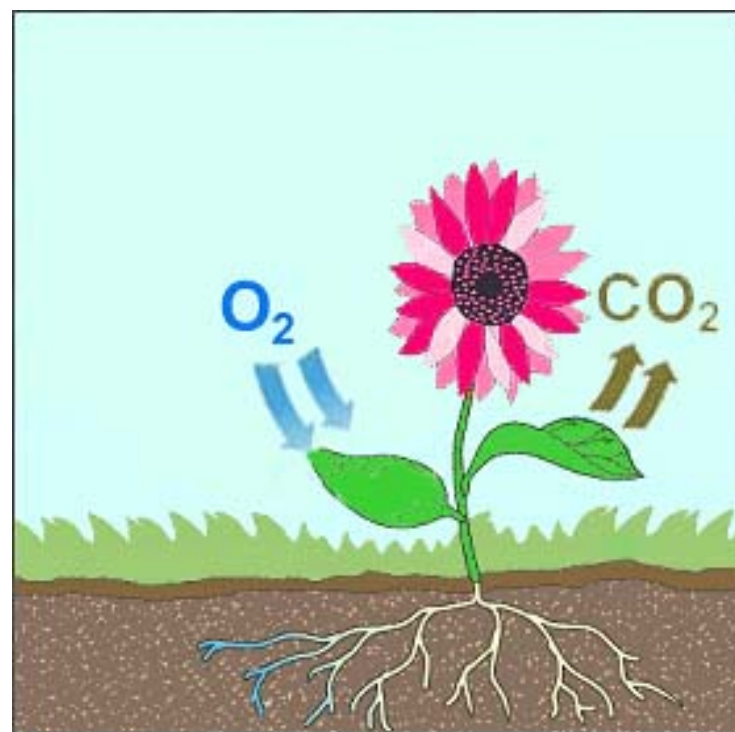
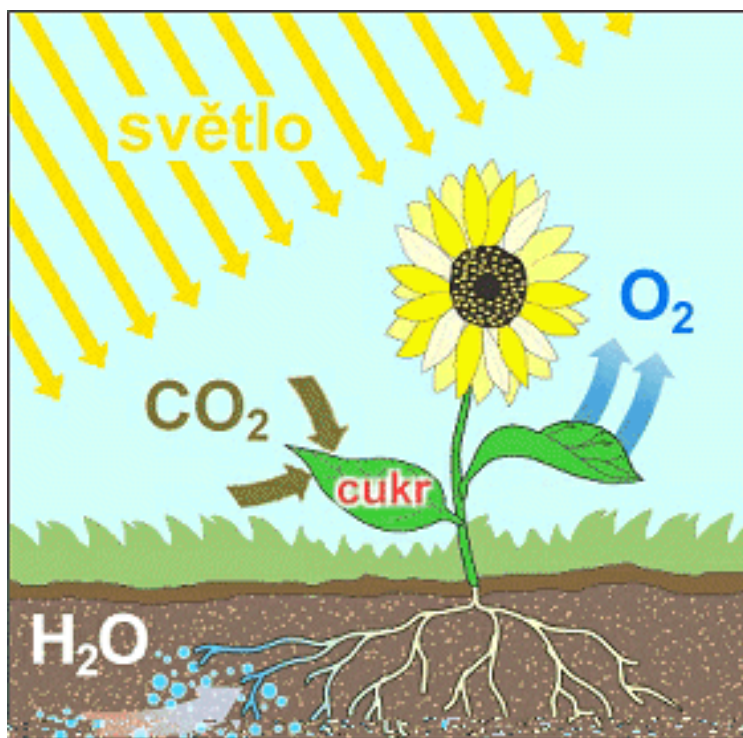
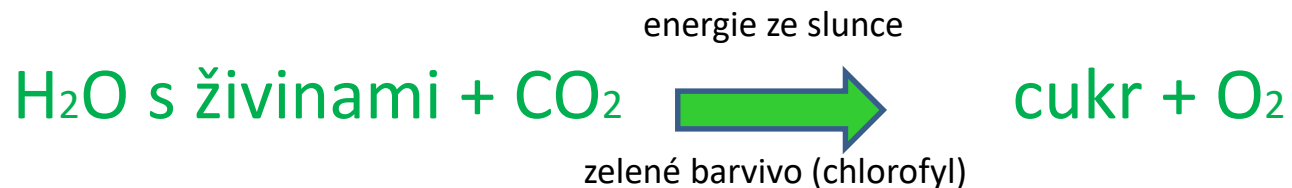
**Dýchání** = tvorba energie

(v organelách **MITOCHONTRIE**)

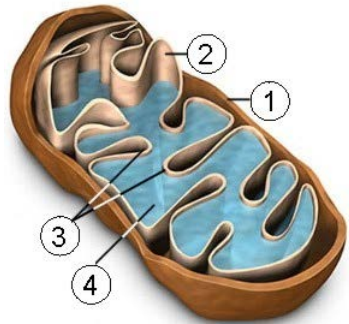


# Fotosyntéza (den)

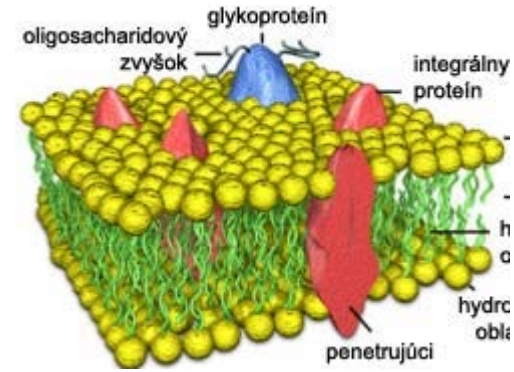
# Dýchání (den i noc)



# Rostlinná buňka



mitochondrie



membrána

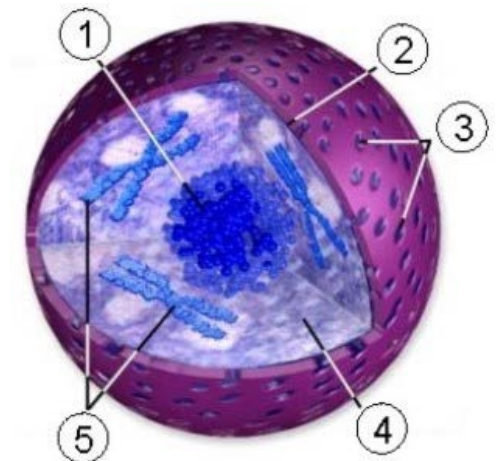
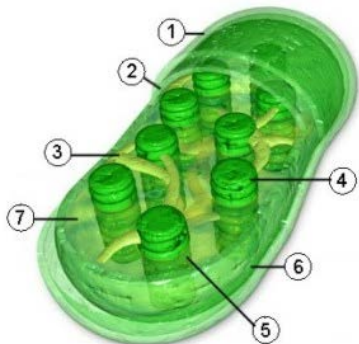
vakuola

buněčná stěna

cytoplazma

jádro

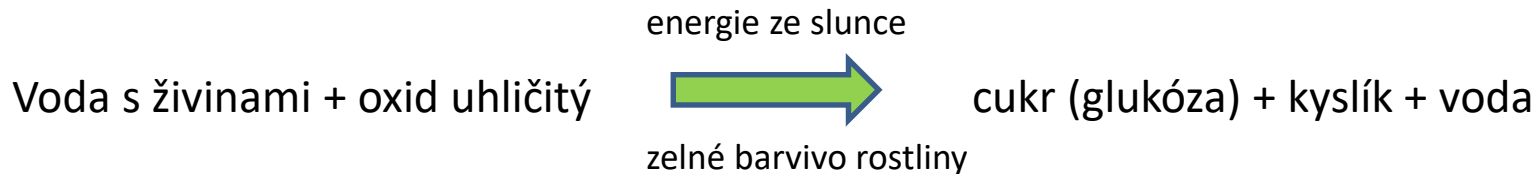
chloroplast



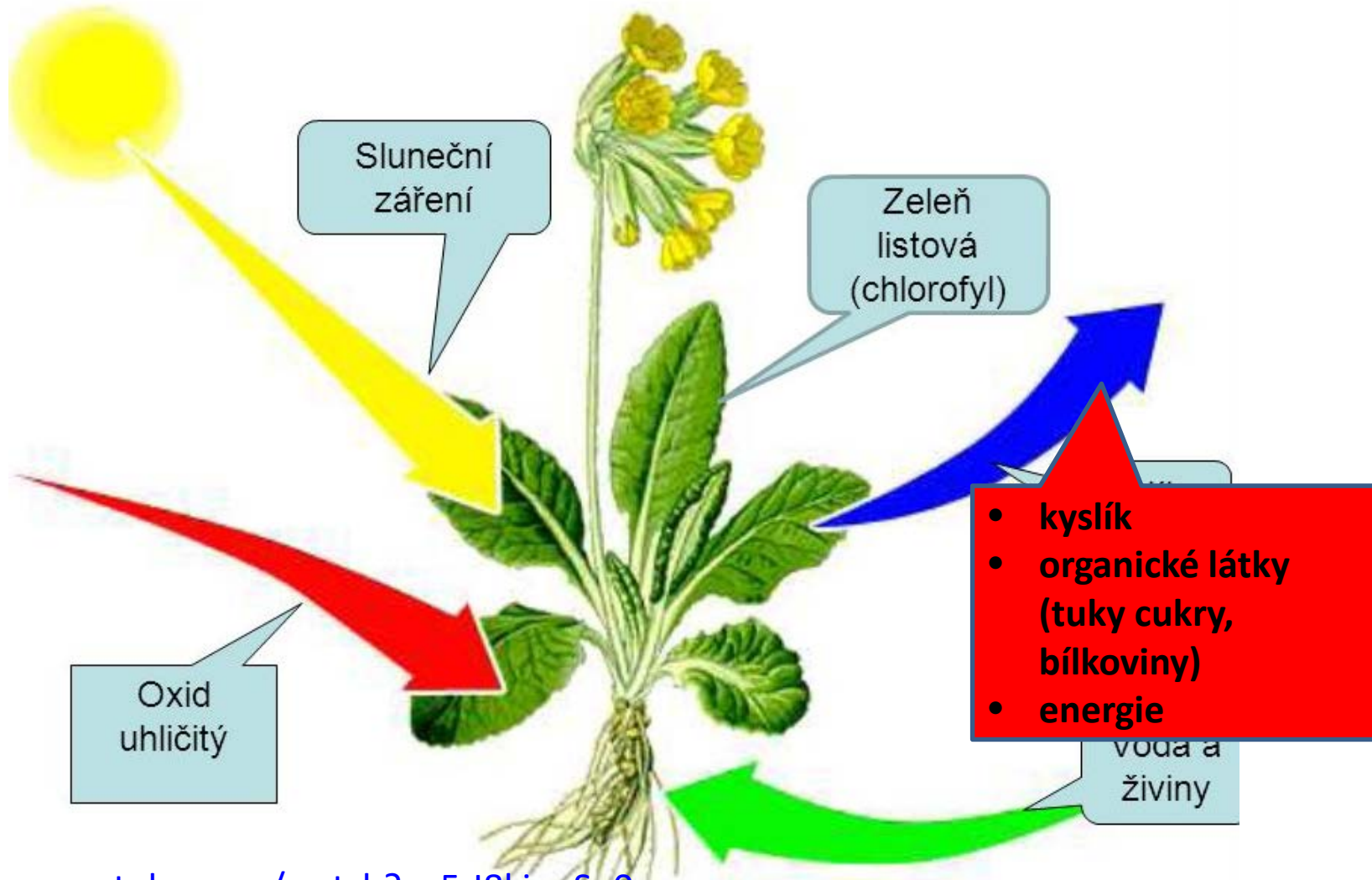
# fotosyntéza

- rostlina je továrna na kyslík a organické látky
- Probíhá **pouze ve dne**

**fotos** = světlo+ **syntéza** = vznik (organických látek)



# Fotosyntéza

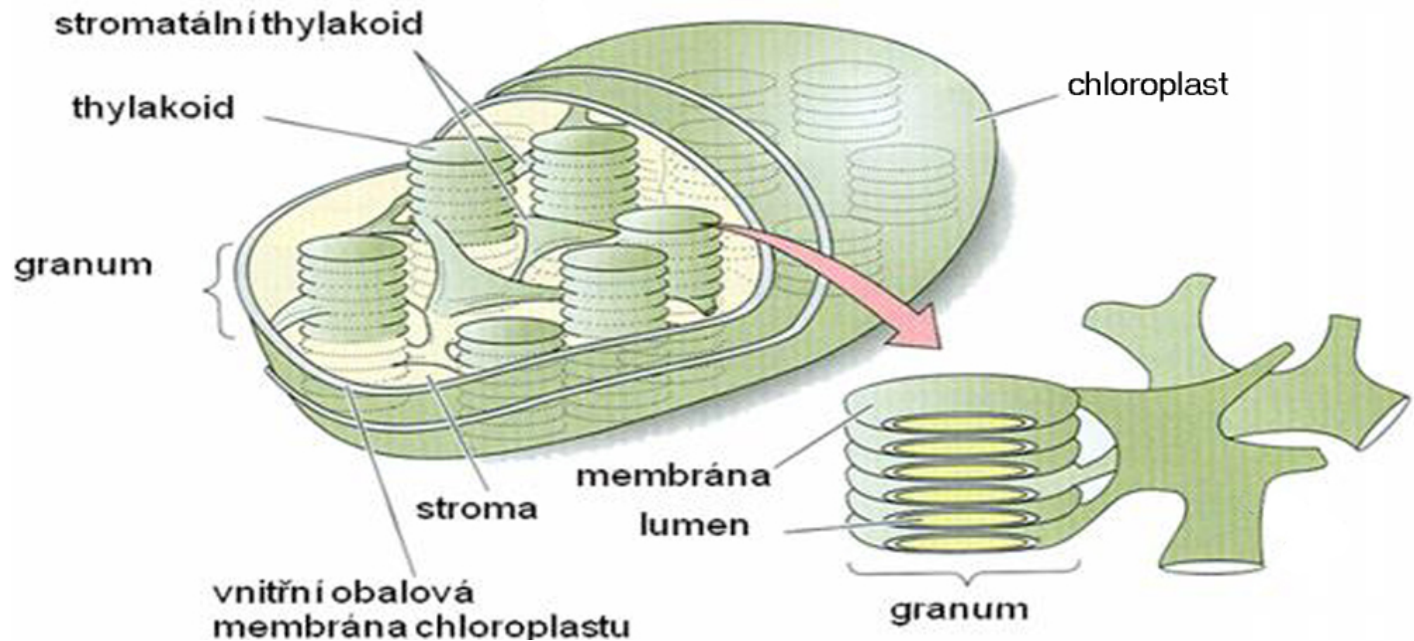
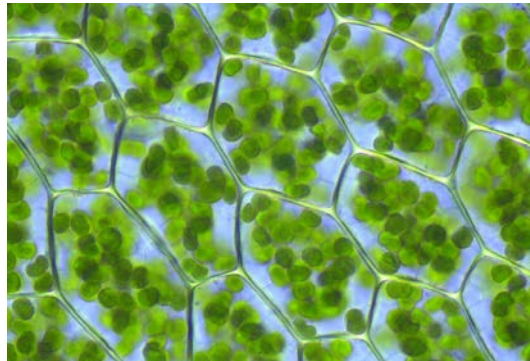


<https://www.youtube.com/watch?v=5-l8kipoSu0>

<https://www.youtube.com/watch?v=zxhgNmaCVAM>

# Fotosyntéza

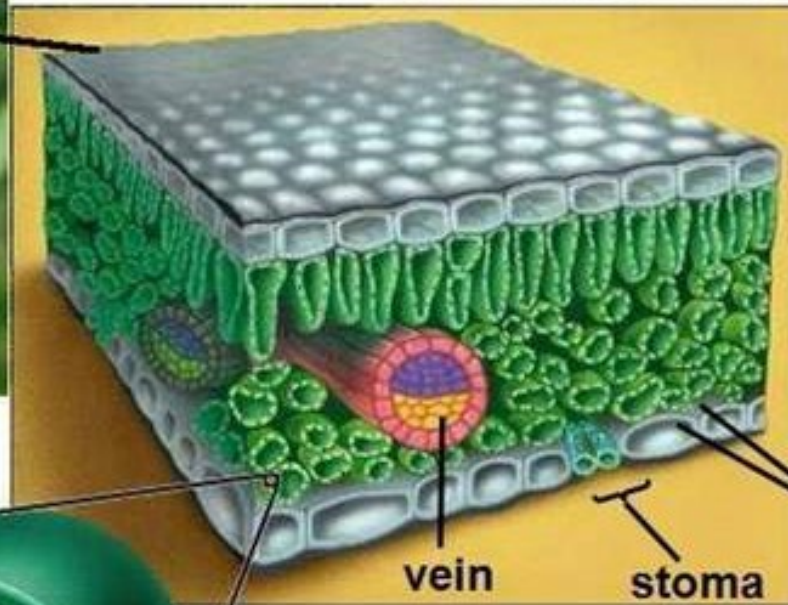
## 1) Příjem světelné energie v CHLOROPASTech



# chloroplast

obsahuje zelené barvivo - **CHLOROFYL**

internal leaf structure



mesophyll cells

vein

stoma

chloroplasts

chloroplast in mesophyll cell

outer membrane

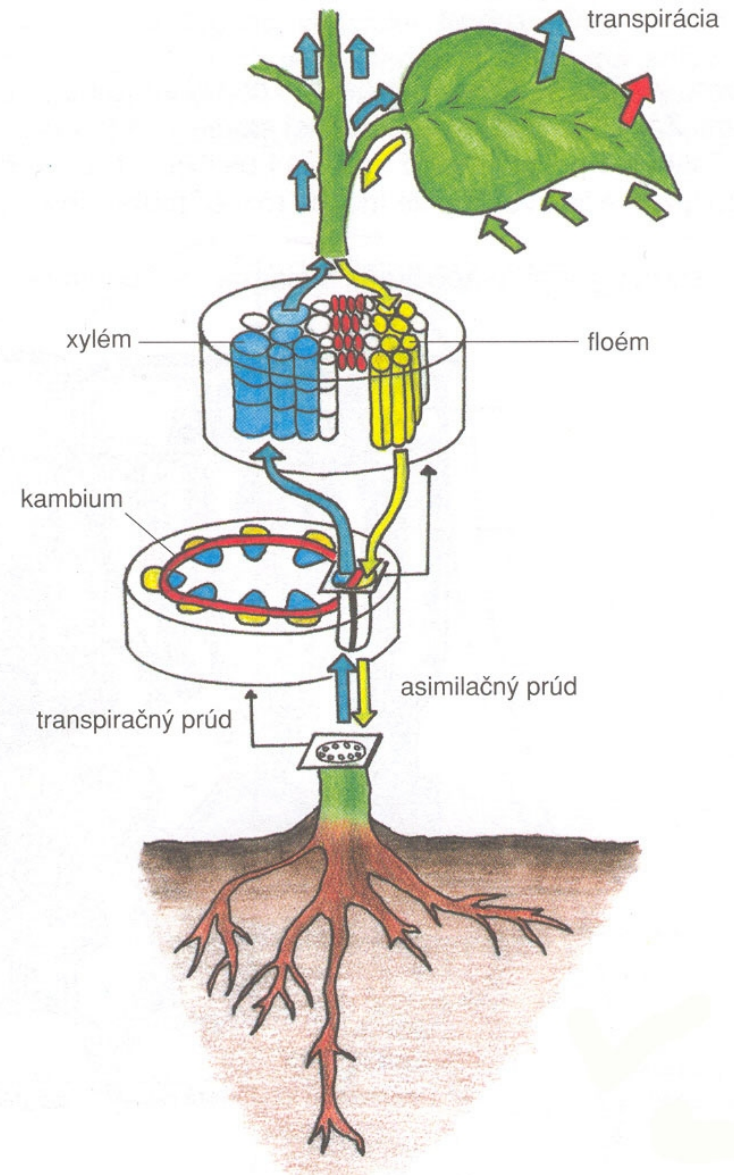
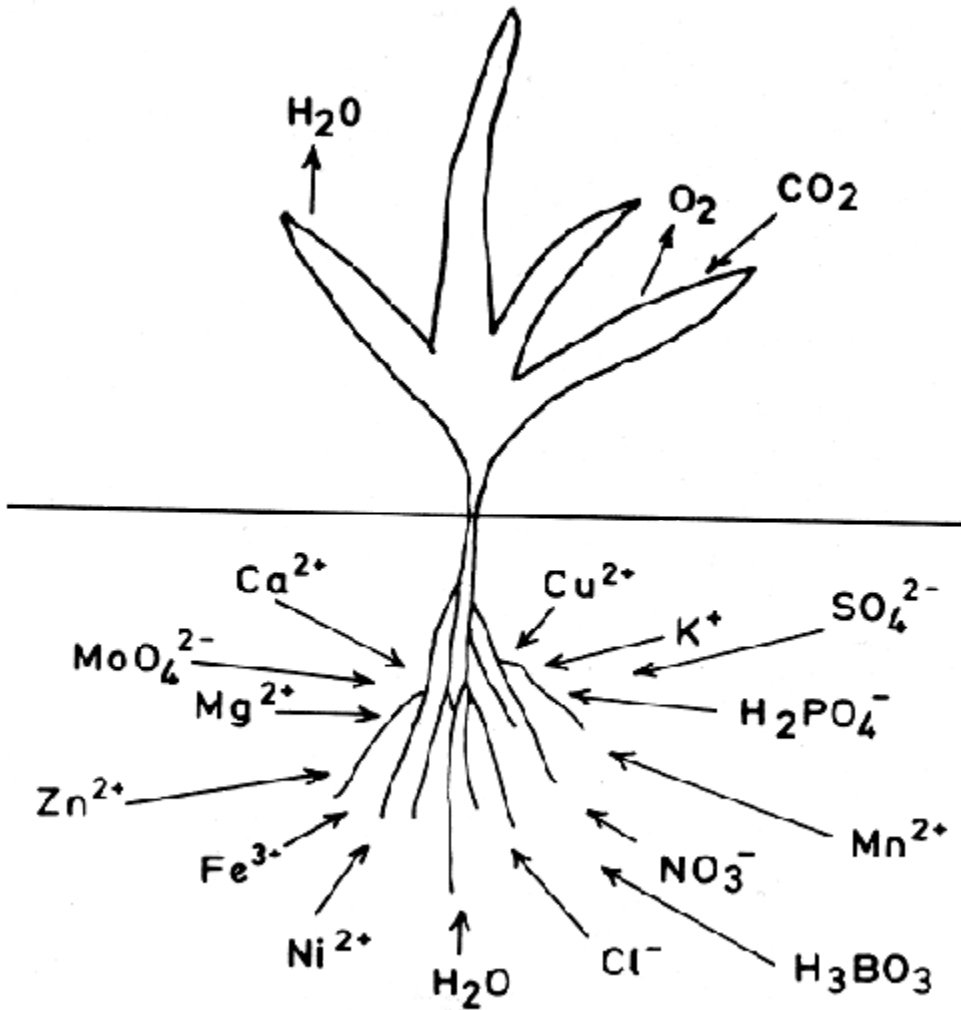
inner membrane

thylakoid

stroma

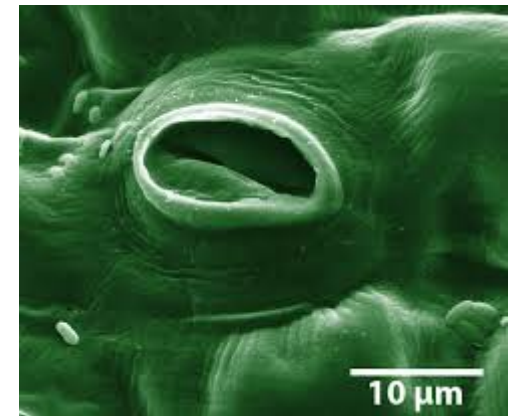
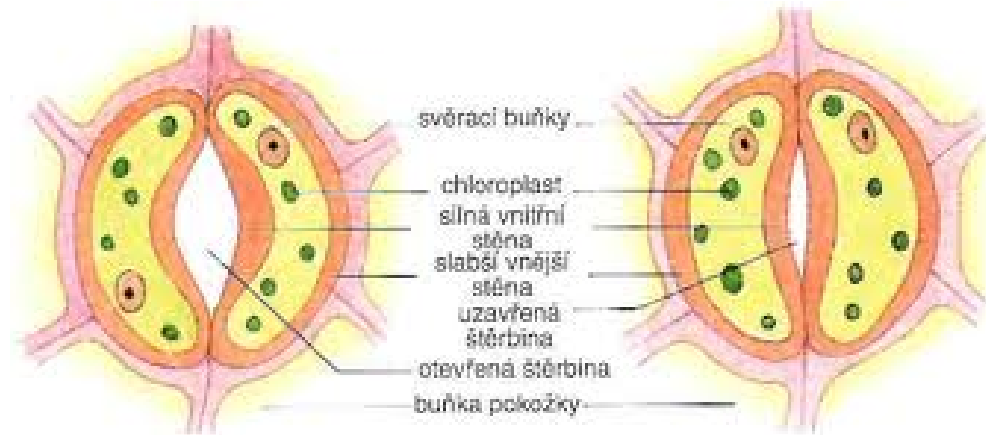
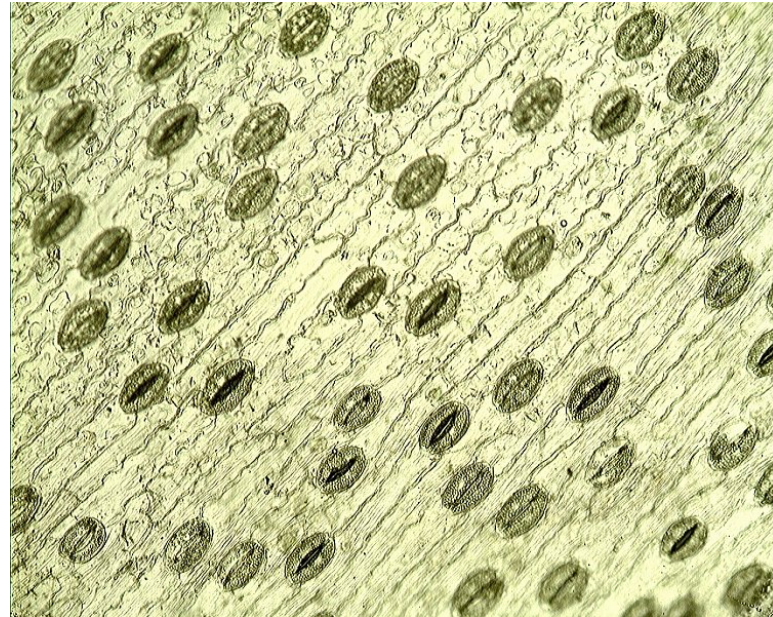
channel interconnecting thylakoids

## 2) Příjem **NEŽIVÝCH LÁTEK** z půdy





### 3) Příjem oxidu uhličitého - **PRUDUCHY**



# DÝCHÁNÍ

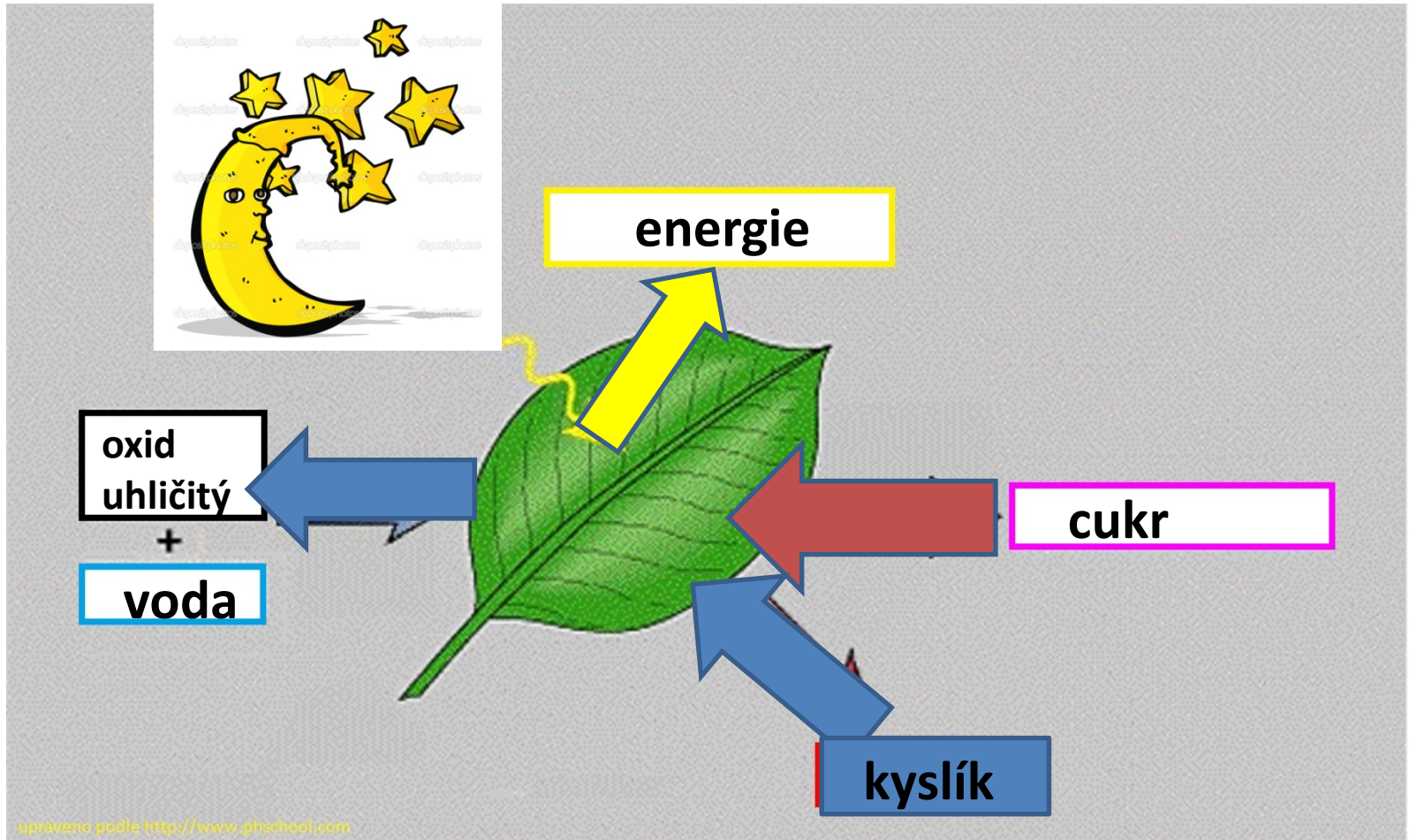
- ve dne i v noci

## Průběh reakce

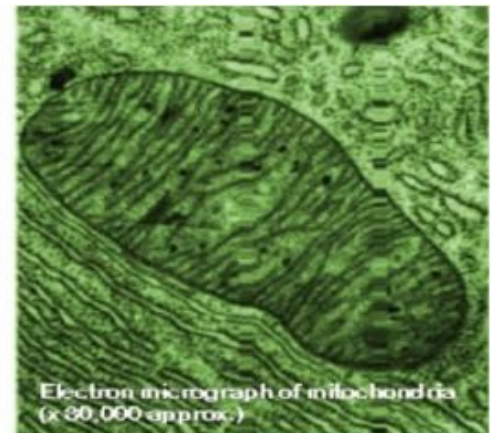
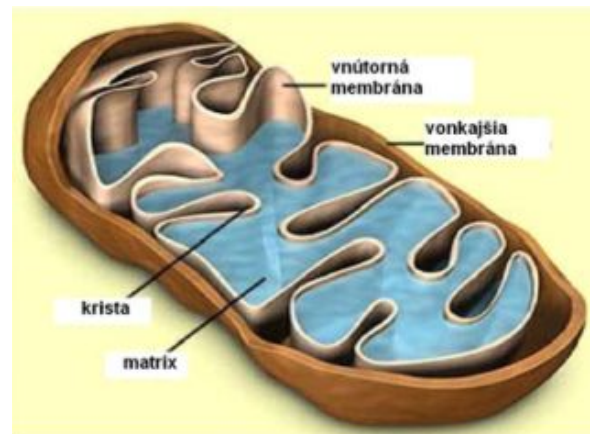
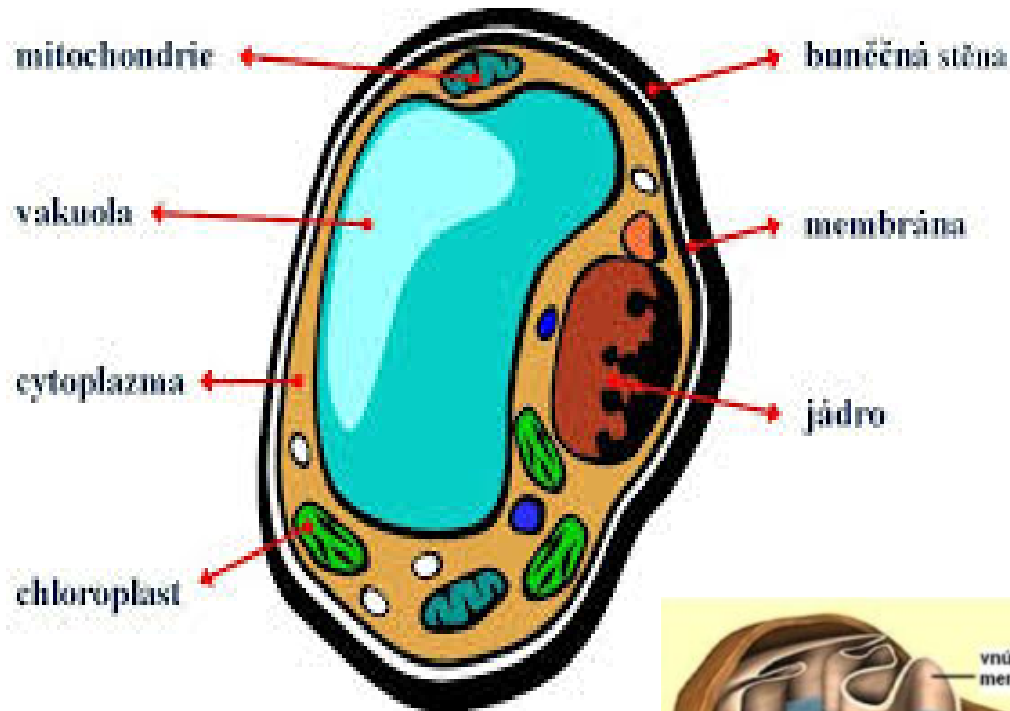
- 1) příjem kyslíku ze vzduchu = ***průduchy***
- 2) uvolňování energie z organických látek = ***mitochondrie***
- 3) energii používá k životním dějům (růst, vývin, pohyb)



# Dýchání

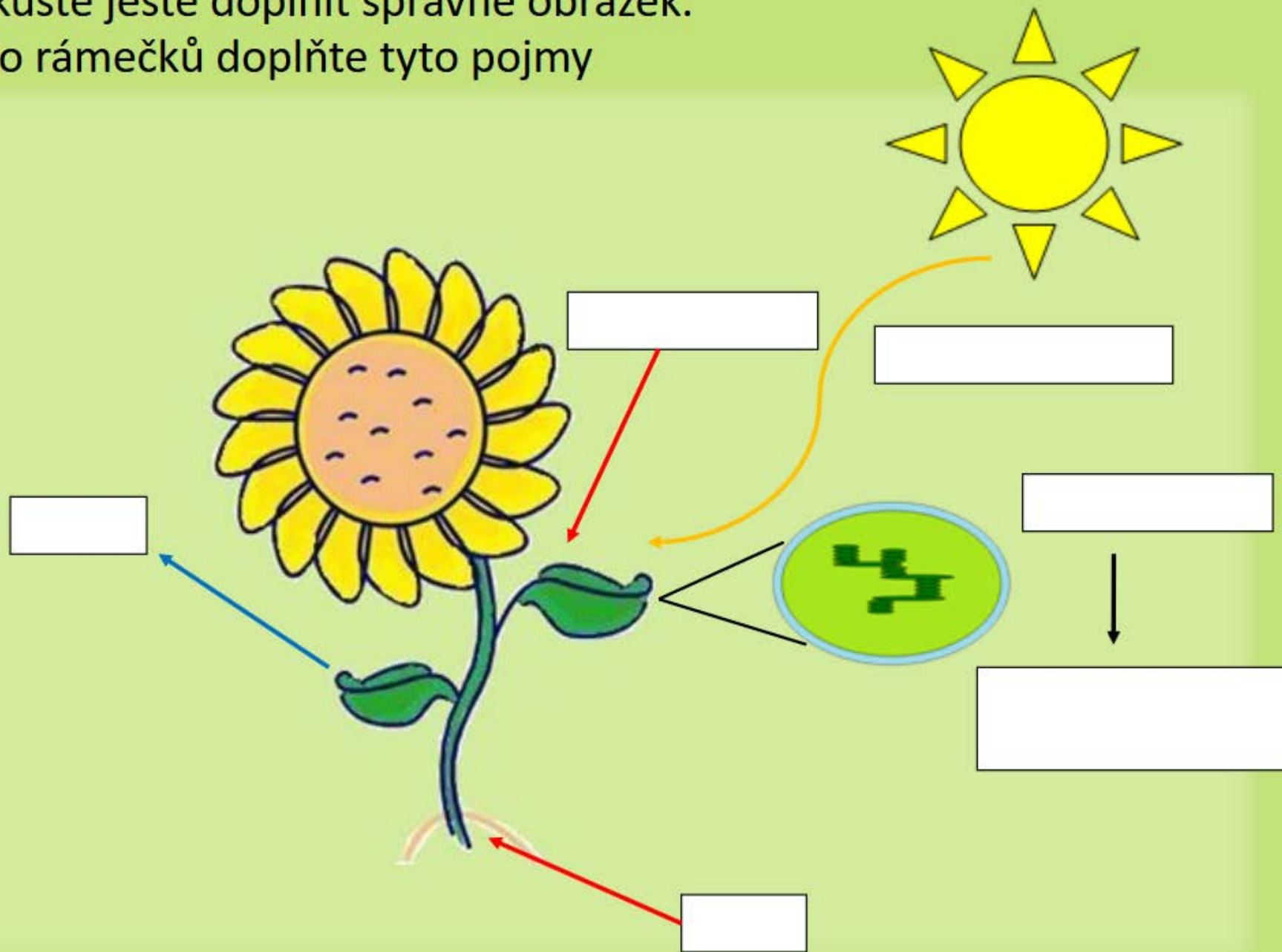


# mitochondrie

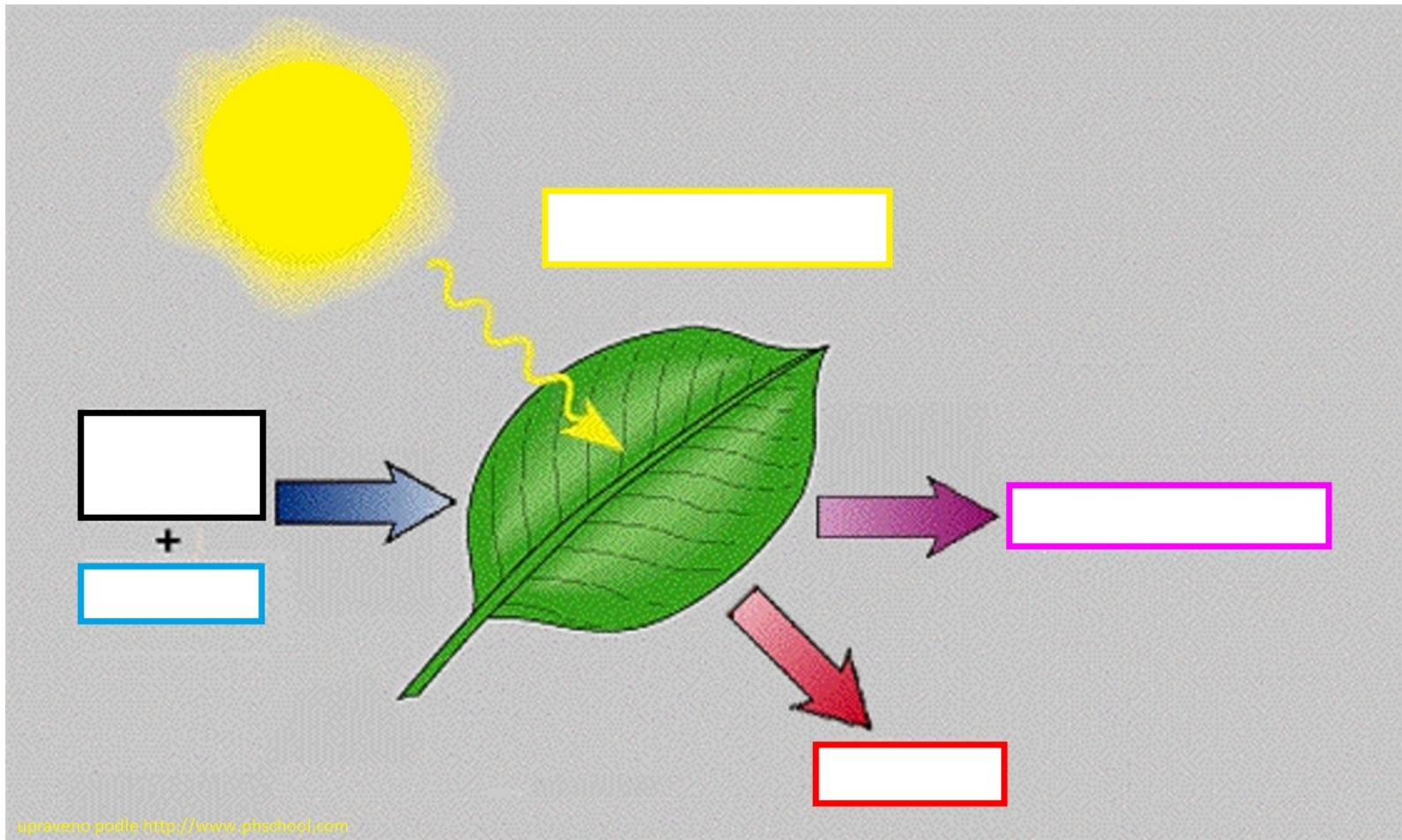


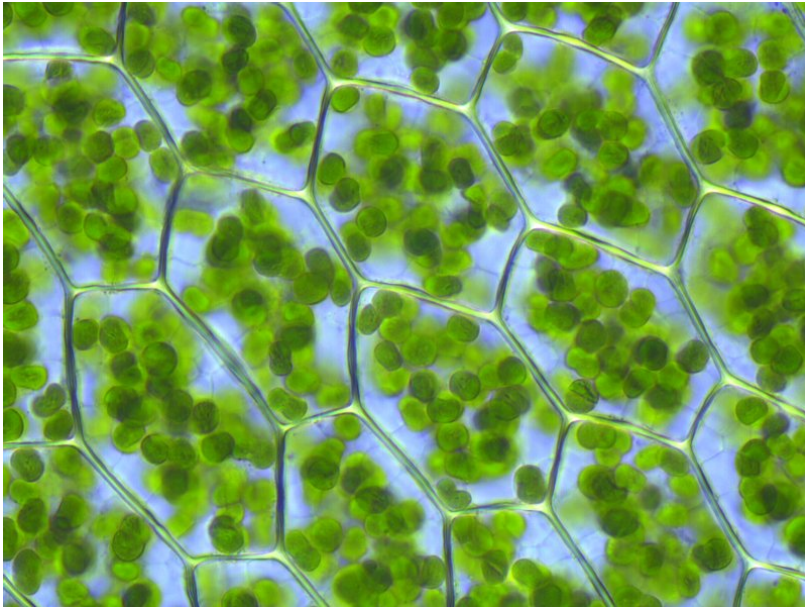
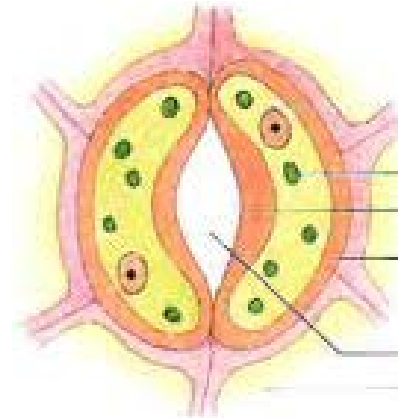
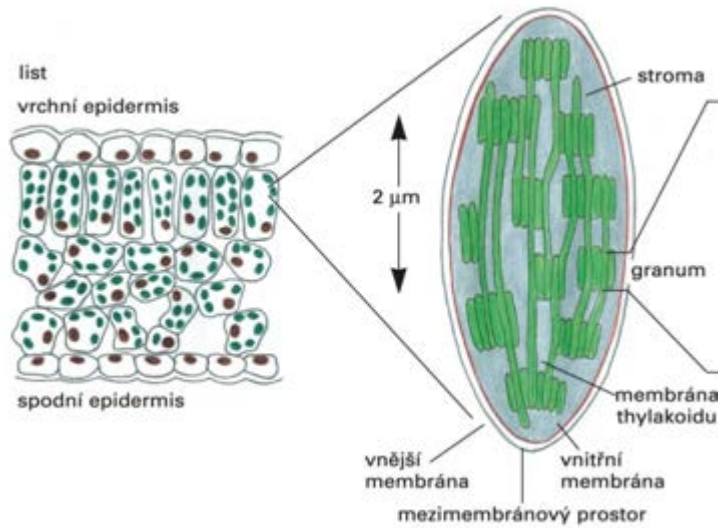
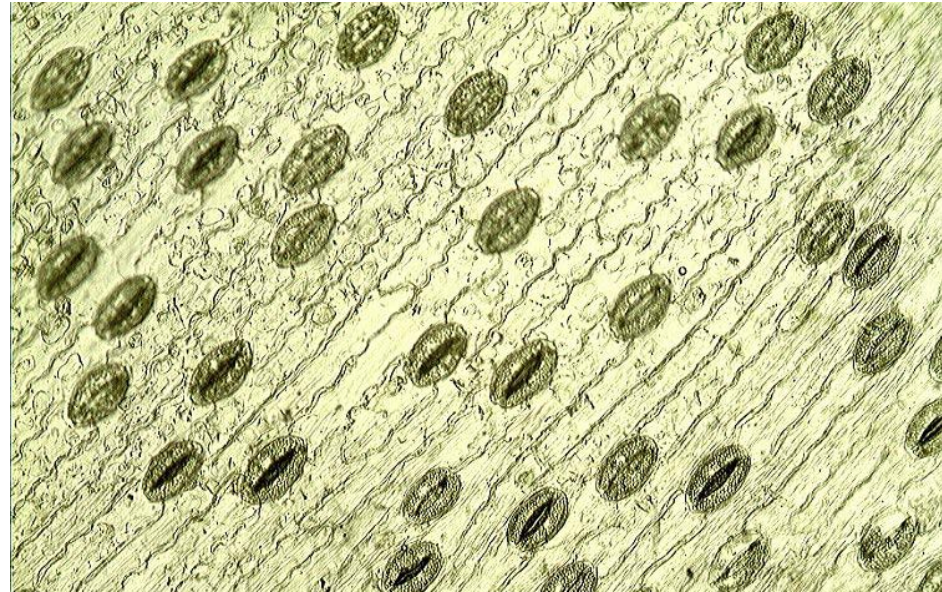
# OPAKOVÁNÍ

♦ Zkuste ještě doplnit správně obrázek.  
Do rámečků doplňte tyto pojmy

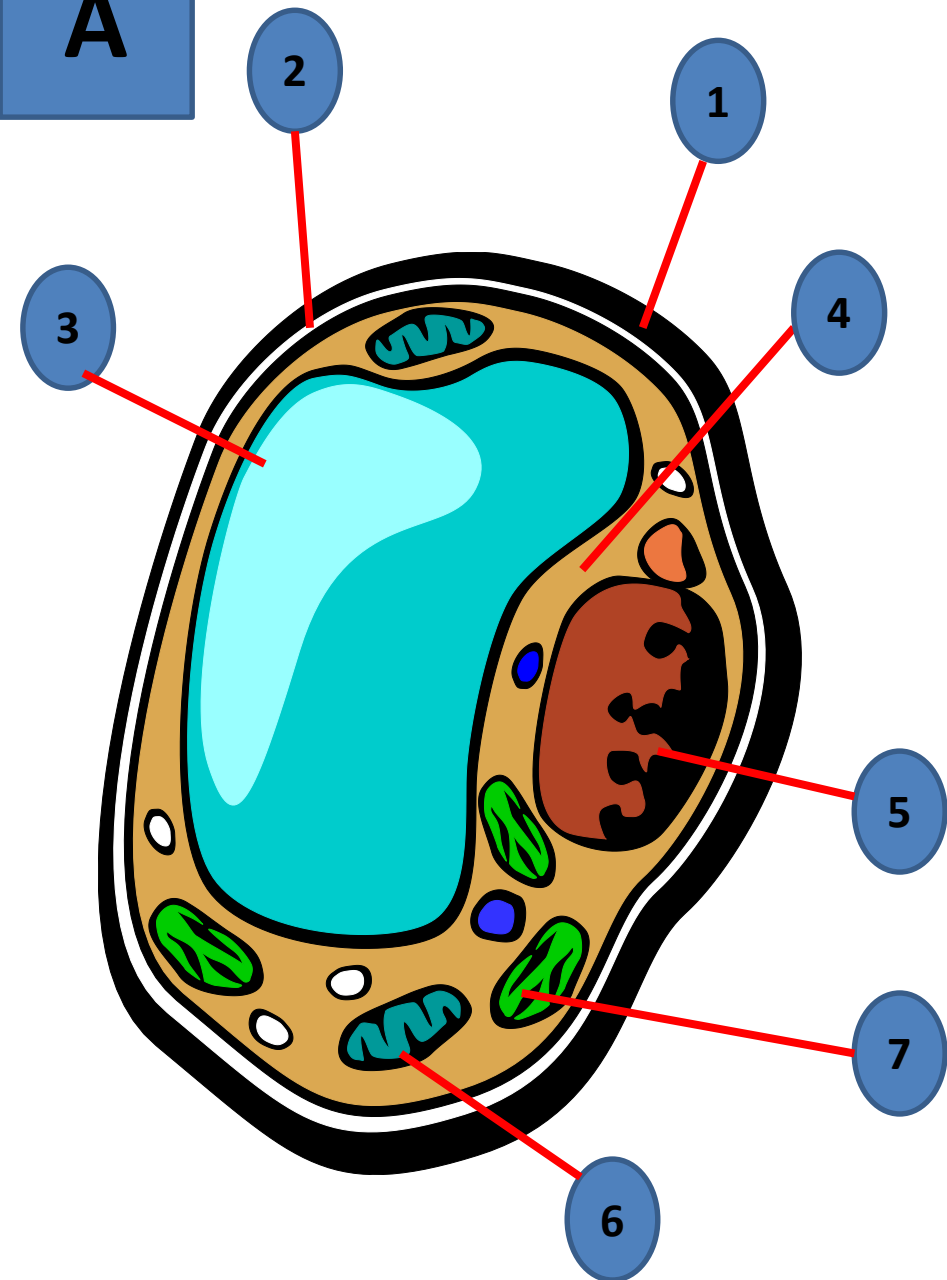


# Co to je



**A****B**



**A****B**