

# **METABOLISMO**

**TRANSFORMAÇÃO DE SUBSTÂNCIAS  
DENTRO DO ORGANISMO**

**CATABOLISMO**



**QUEBRA DE SUBSTÂNCIAS  
PARA PRODUÇÃO DE  
SUBSTÂNCIAS MAIS SIMPLES**

**ANABOLISMO**



**FORMAÇÃO DE  
SUBSTÂNCIAS  
MAIS COMPLEXAS**

FOTOSÍNTESE

# FOTOSSÍNTESE



GLICOSE  
(AÇUCAR)  
 $C_6H_{12}O_6$



**METABOLISMO** ➡

**ANABOLISMO**

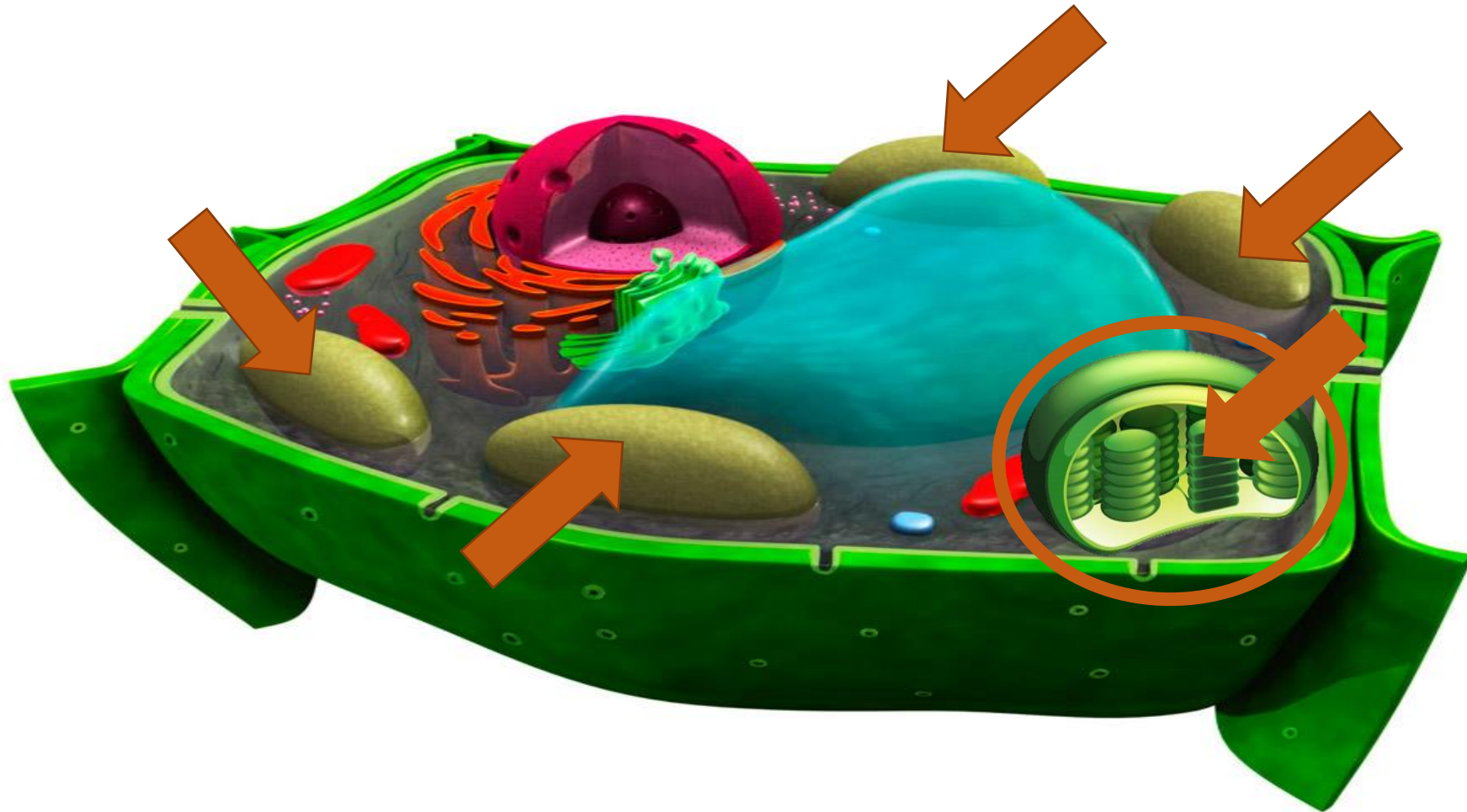
# *FOTOSSÍNTESE*

*LEVEL MEDIUM*

# FOTOSSÍNTESE

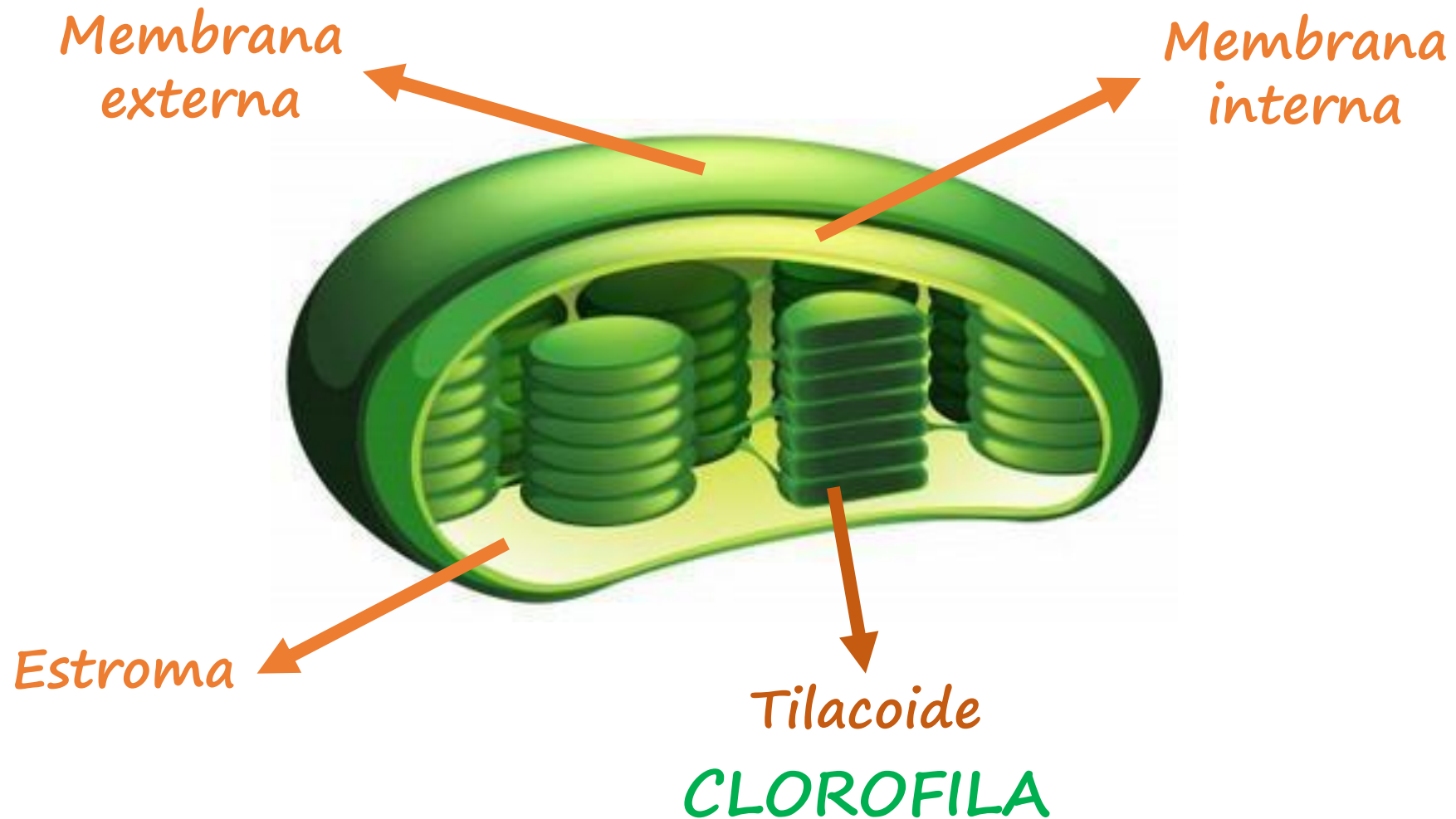


# CÉLULA VEGETAL



CLOROPLASTOS

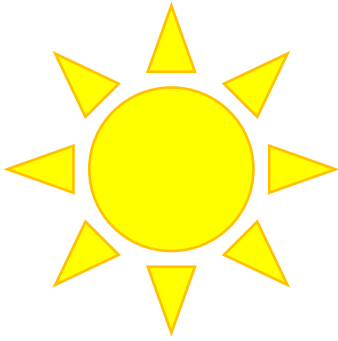
# CLOROPLASTO





# FOTOSSÍNTESE

*FASE CLARA*



*FASE ESCURA*

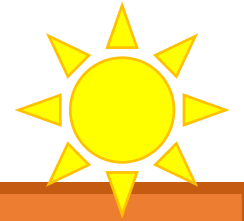


*FASE  
FOTOQUÍMICA*

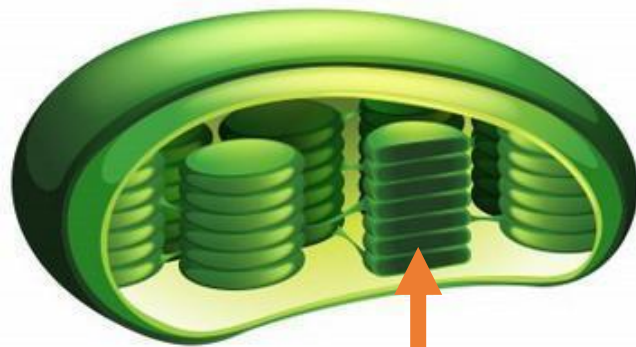
*FASE DE FIXAÇÃO  
DE CARBONO*



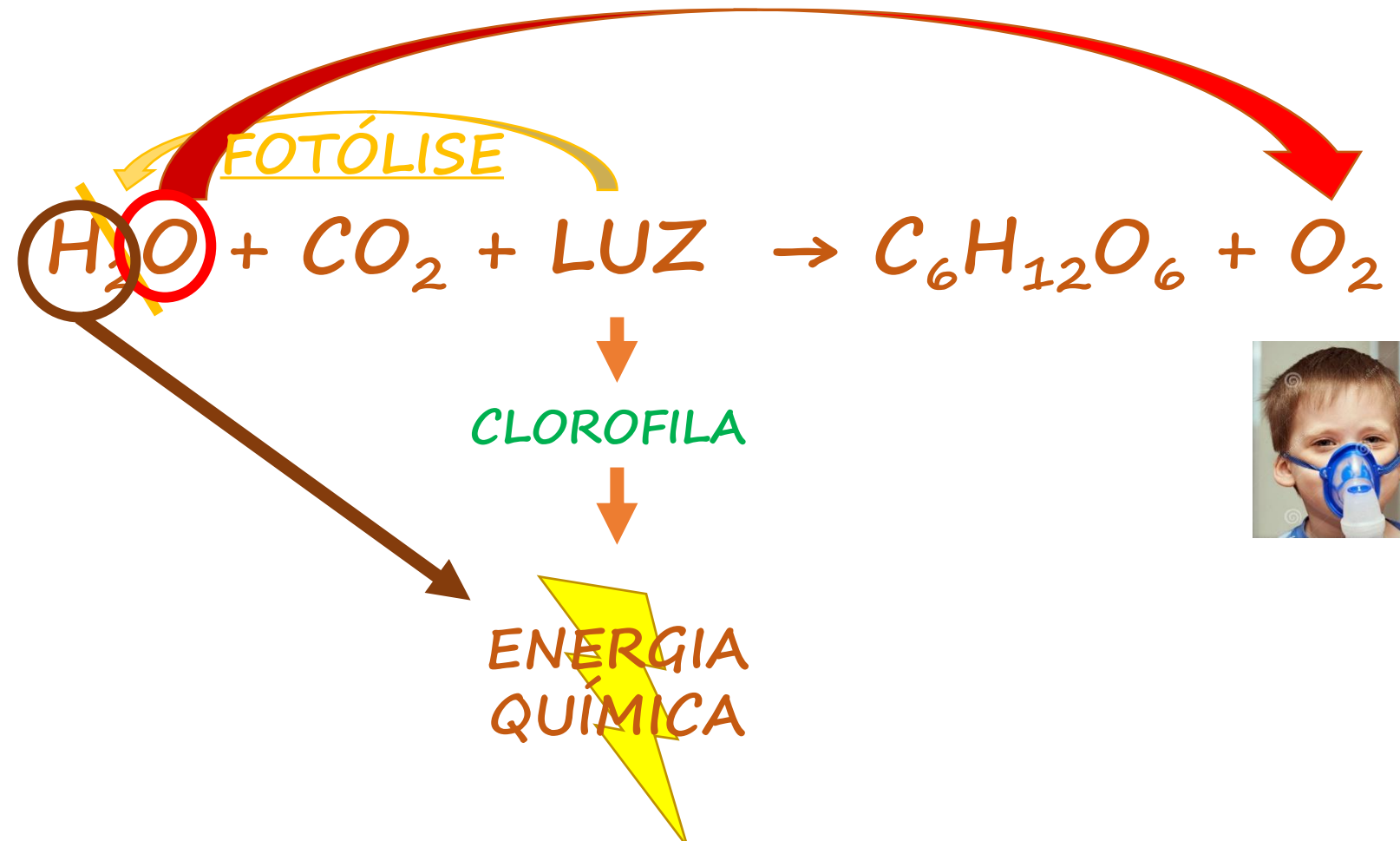
# FOTOSSÍNTESE – FASE CLARA



FASE FOTOQUÍMICA



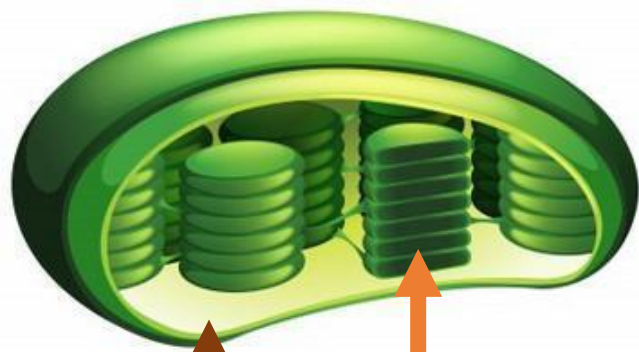
Tilacoide



# FOTOSSÍNTESE

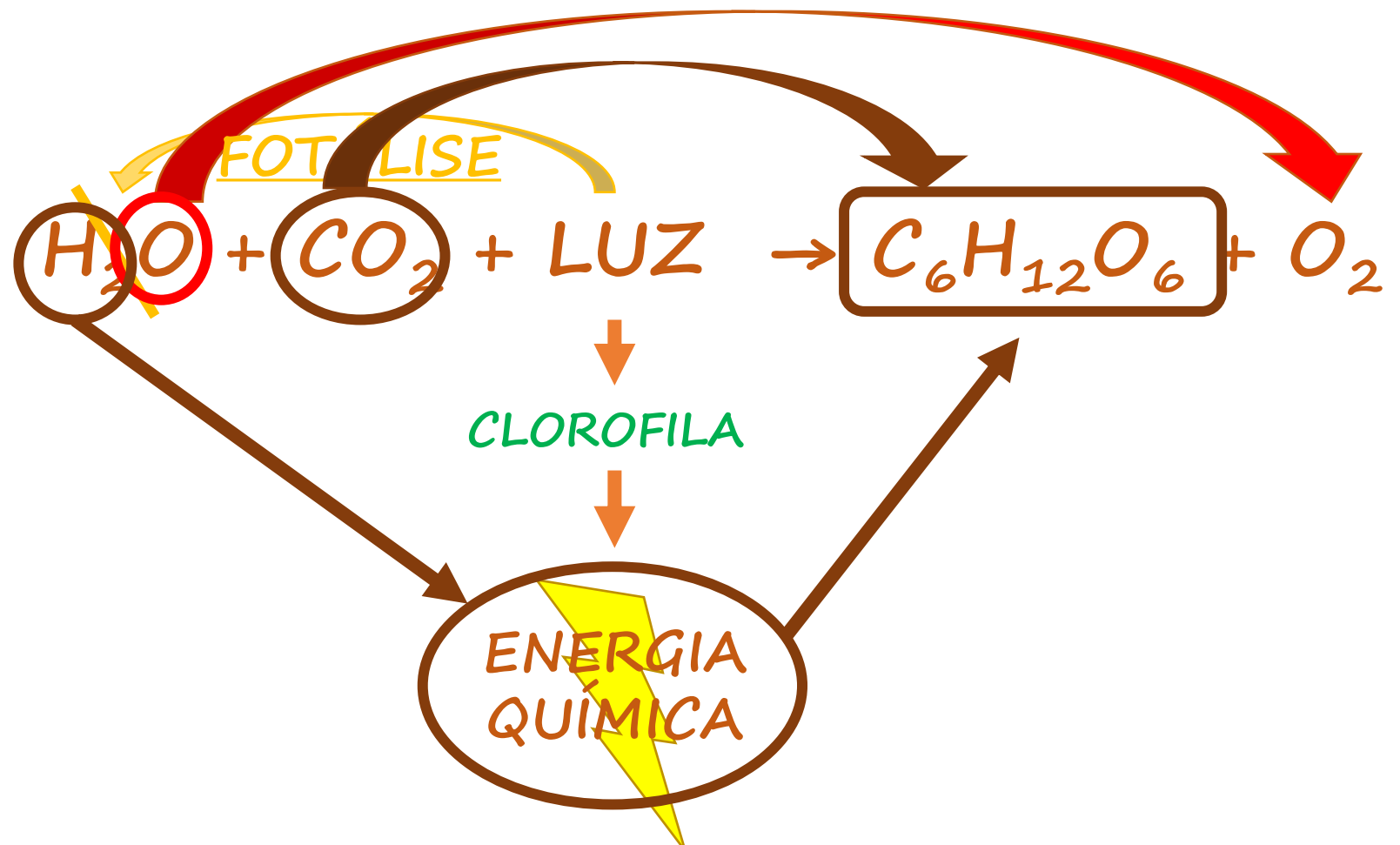
## - FASE ESCURA

## FASE DE FIXAÇÃO DE CARBONO



# Tilacoide

# Estroma

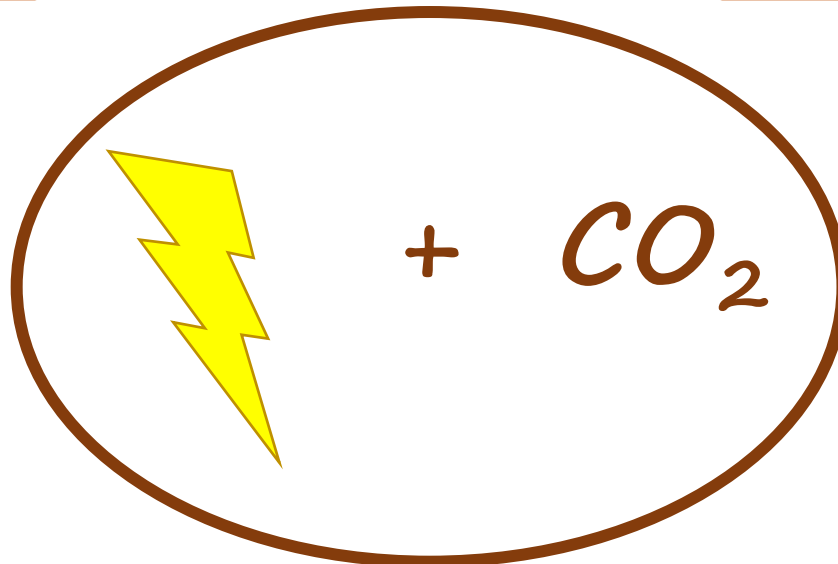
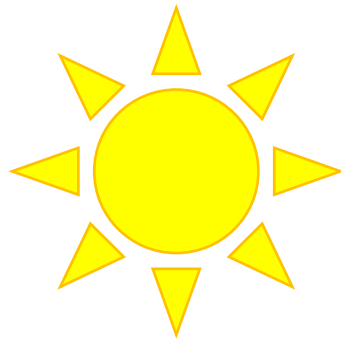


# FOTOSSÍNTESE

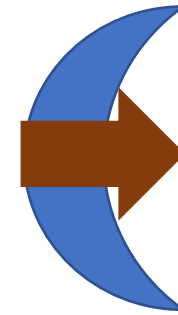
FASE  
CLARA

FASE  
ESCURA

FOTOLISE



+  $CO_2$



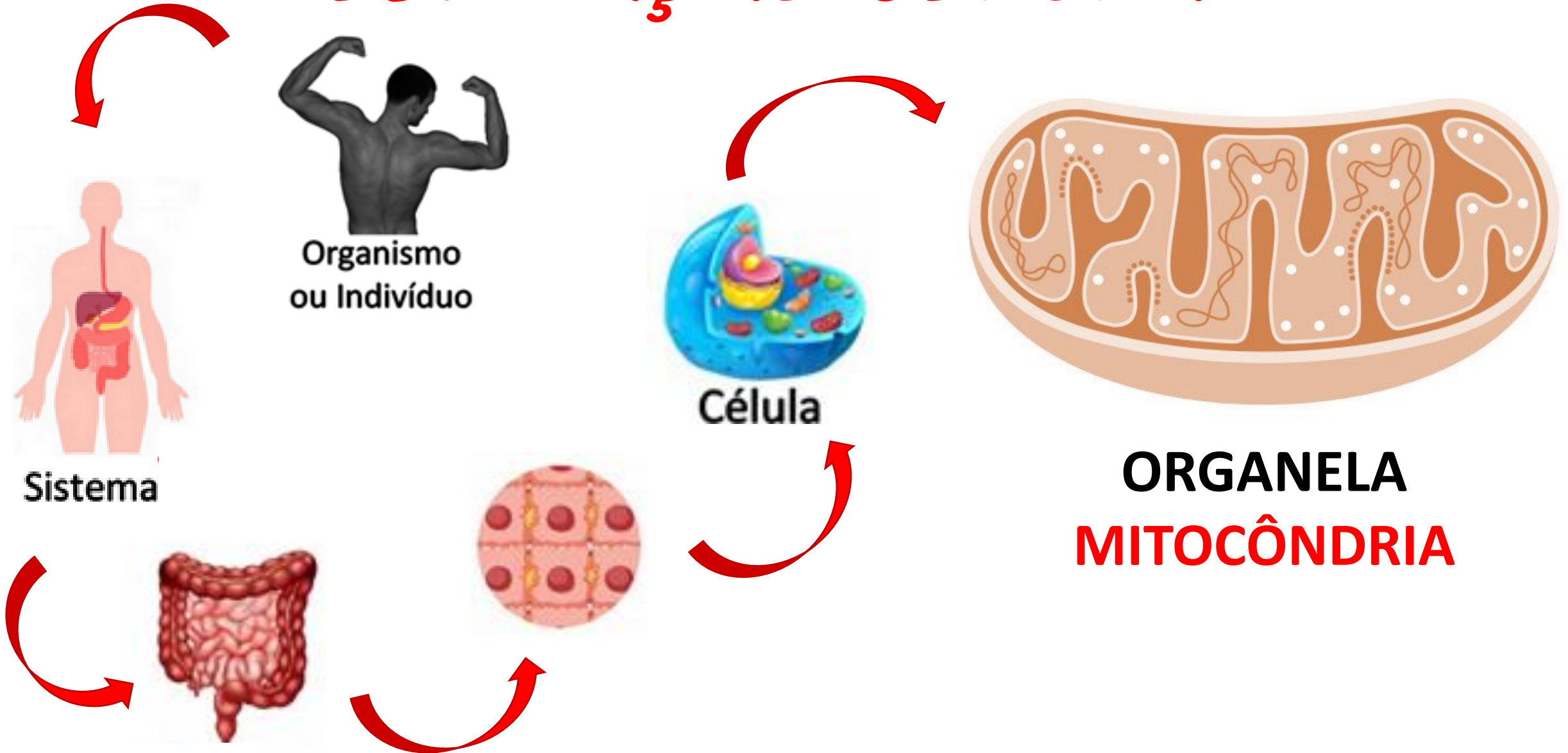
GLICOSE

FASE FOTOQUÍMICA

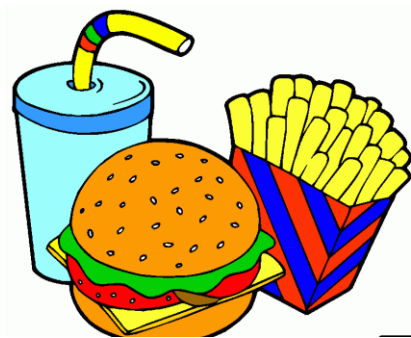
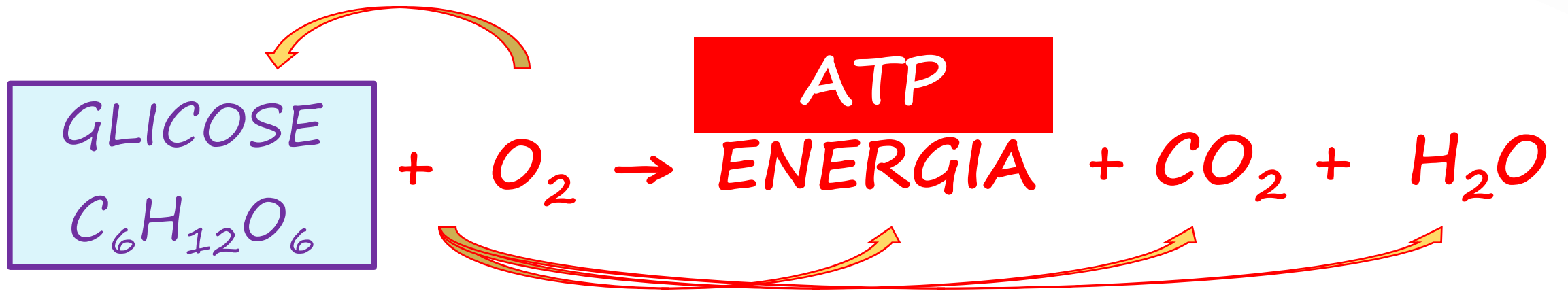
FASE DE FIXAÇÃO DE CARBONO

RESPIRAÇÃO  
CELULAR

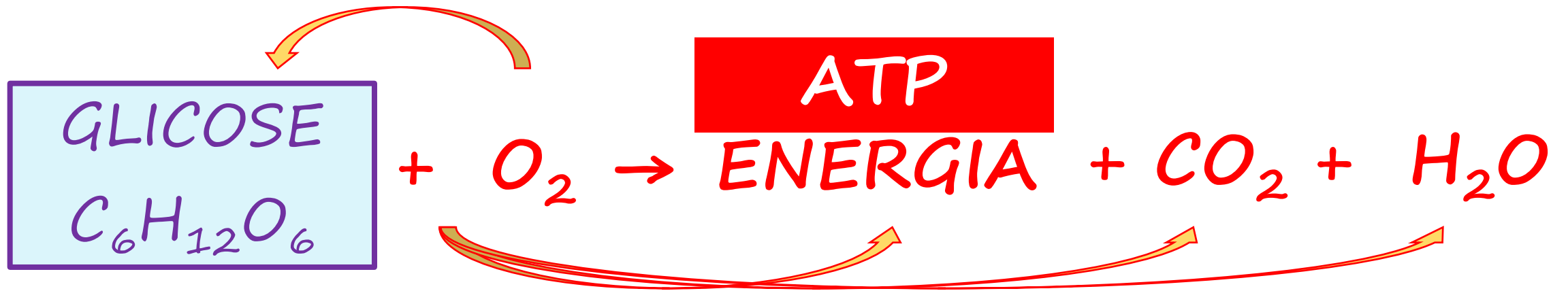
# RESPIRAÇÃO CELULAR



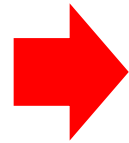
# RESPIRAÇÃO CELULAR



# RESPIRAÇÃO CELULAR



**METABOLISMO**



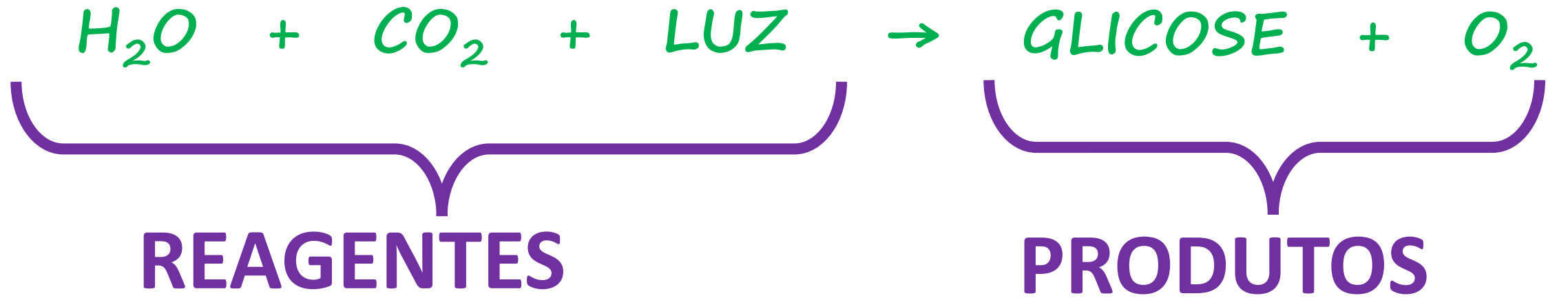
**CATABOLISMO**



FOTOSÍNTESE

RESPIRAÇÃO  
CELULAR

# FOTOSSÍNTESE



RESPIRAÇÃO CELULAR

# FOTOSSÍNTESE



RESPIRAÇÃO CELULAR

