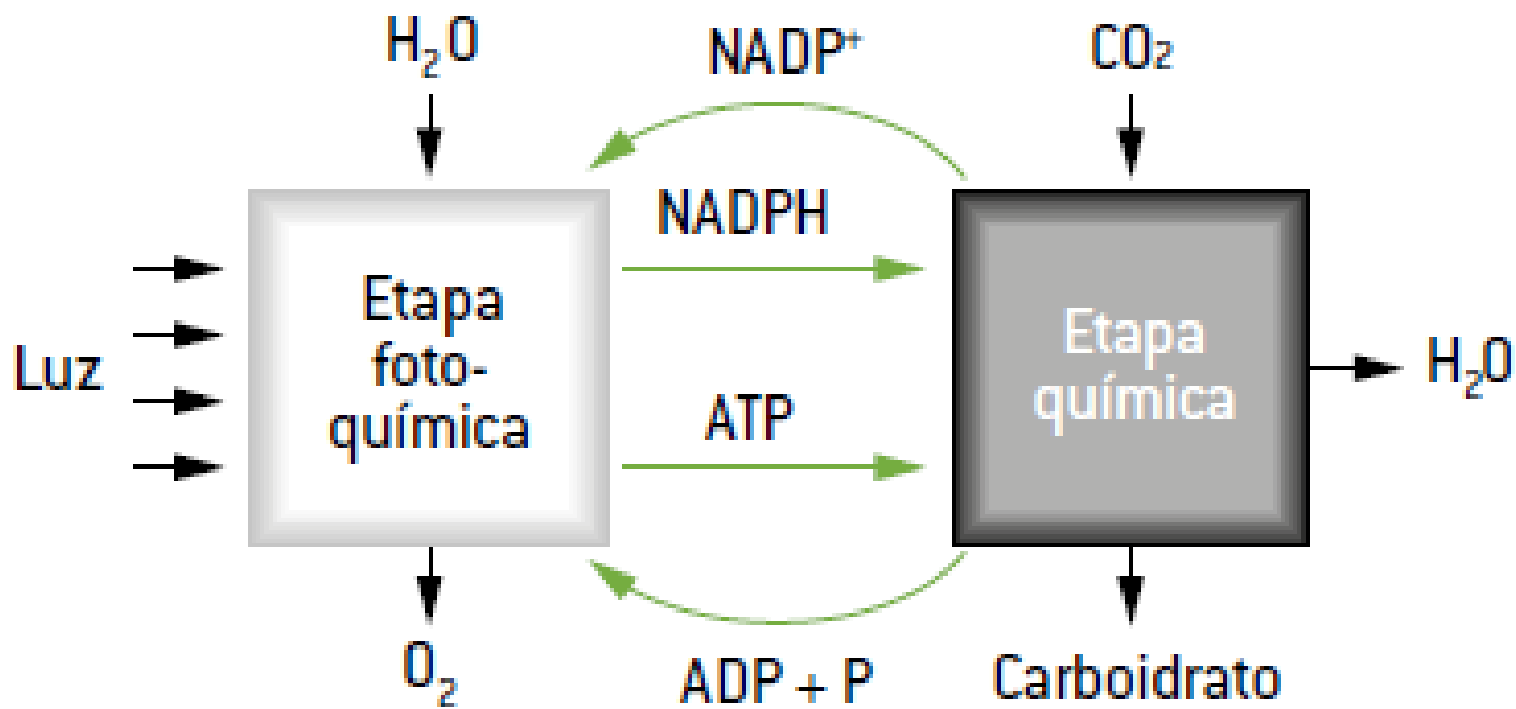


# Fotossíntese: etapas do processo fotossintético

**Prof. Alison**  
Biologia

## Fotossíntese (visão geral)



# Fotossíntese (etapas)

**ETAPA CLARA ou FOTOQUÍMICA:** ocorre nos tilacoides dos cloroplastos.

→ CÍCLICA

→ ACÍCLICA

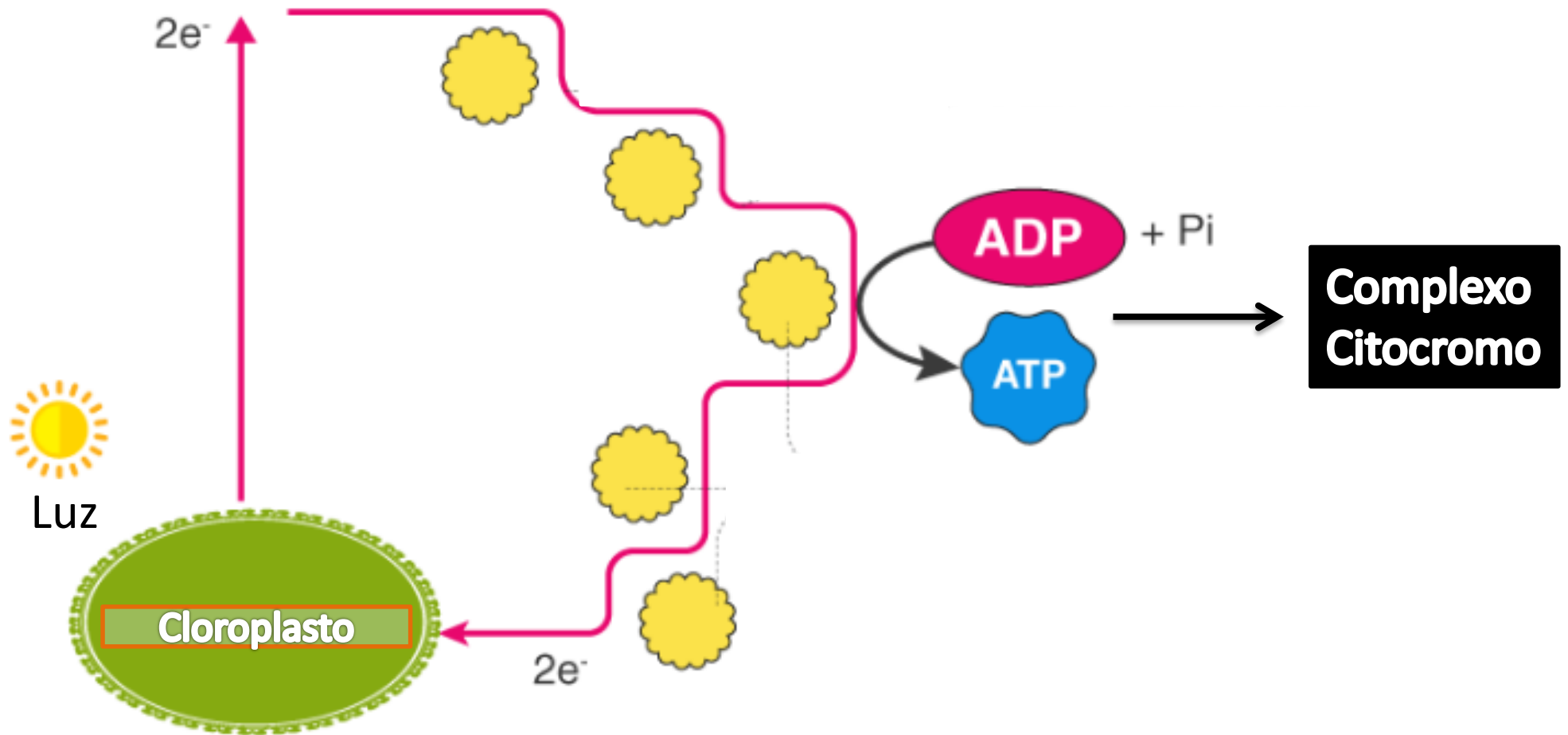
→ FOTÓLISE DA ÁGUA

**ETAPA ESCURA ou QUÍMICA:** ocorre no estroma dos cloroplastos.

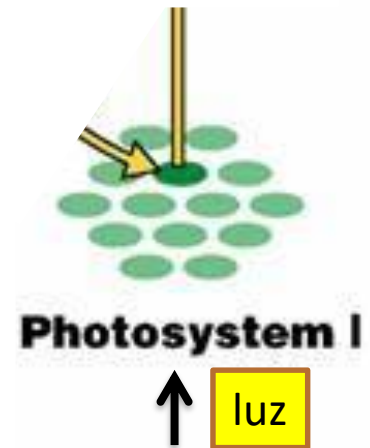
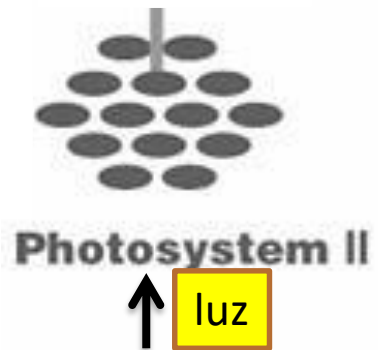
→ CICLO DE CALVIN-BENSON



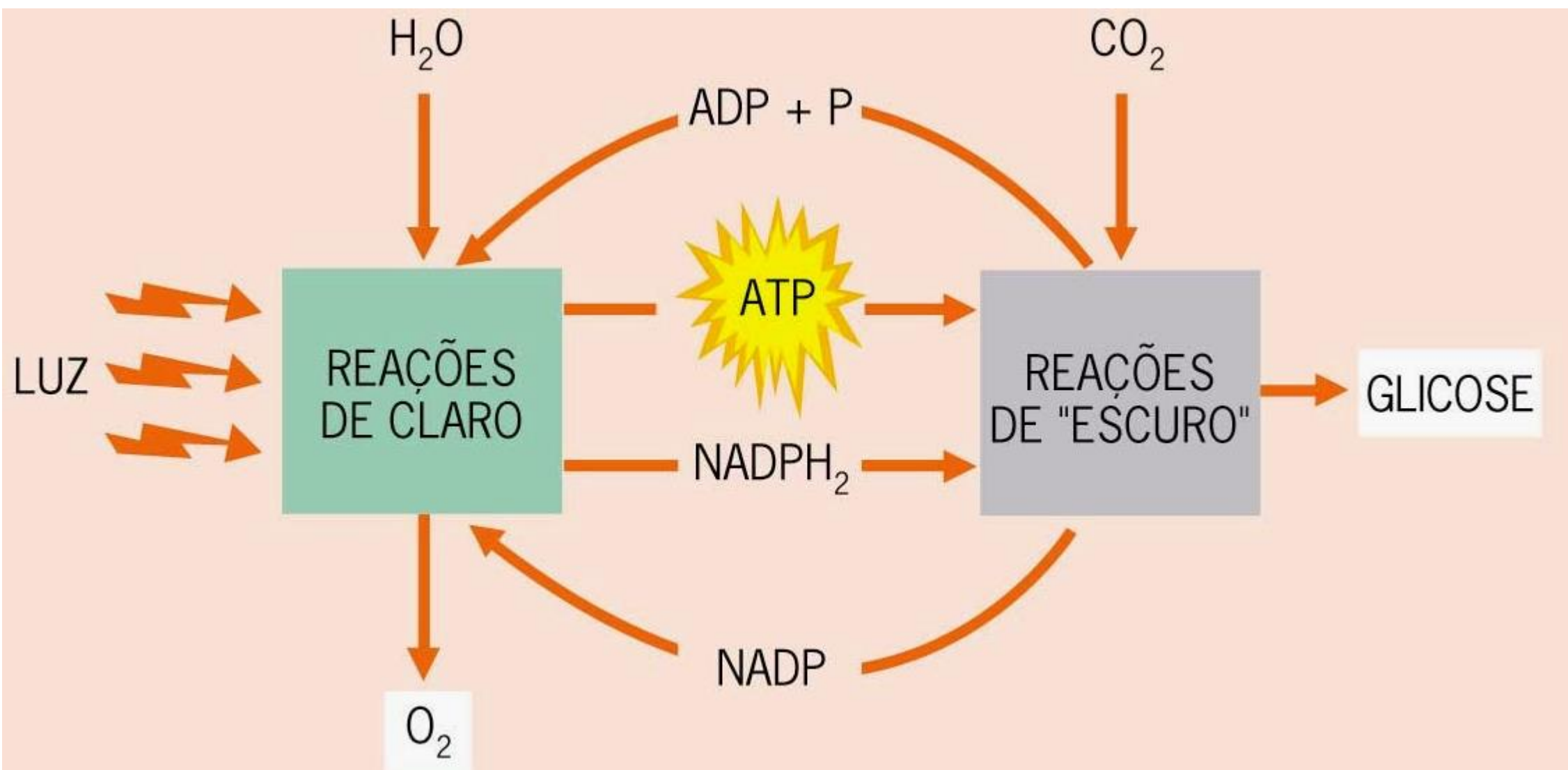
## Etapa clara (fase cíclica)



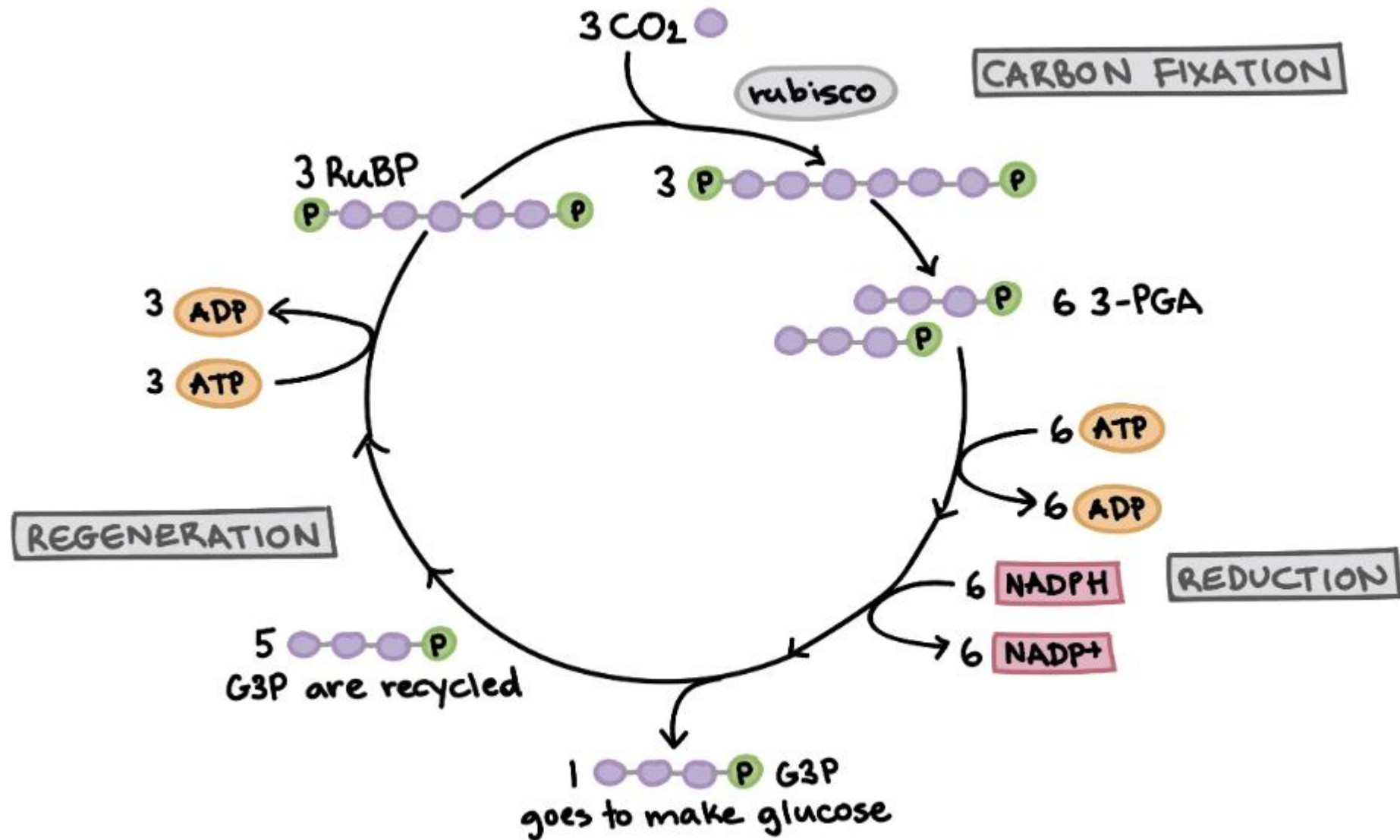
## Etapa clara (fase acíclica)



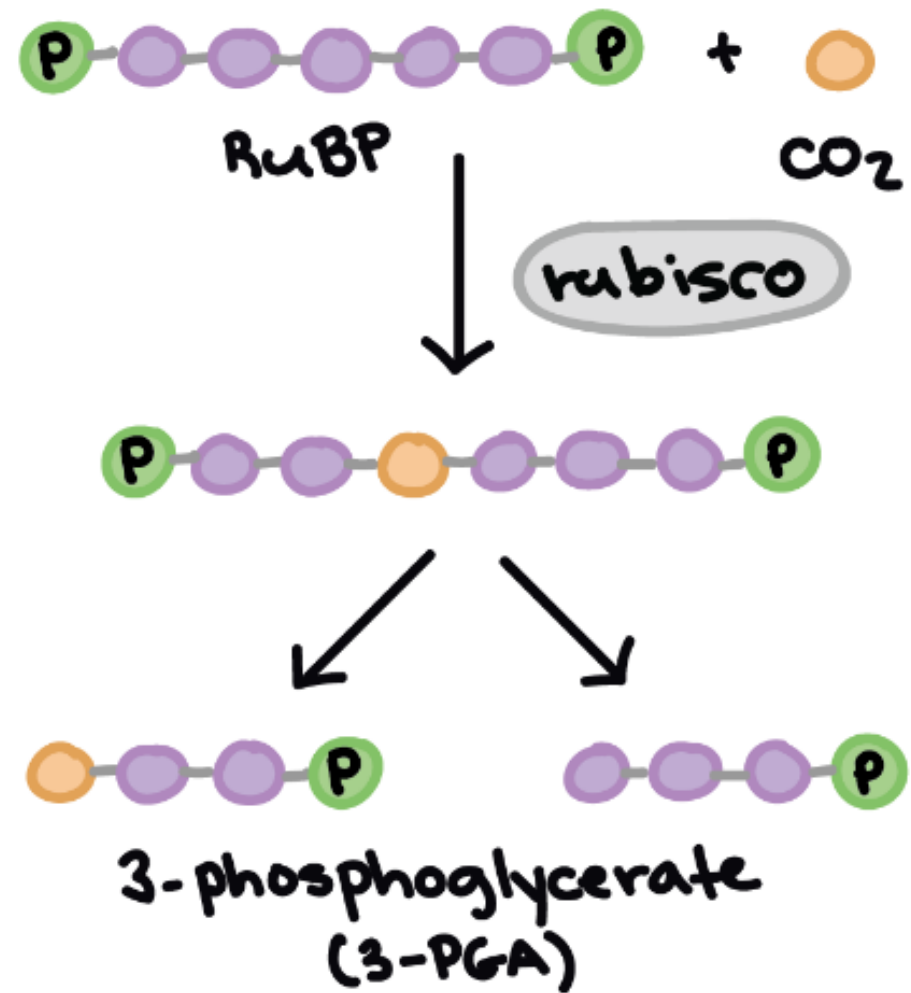
# Fotossíntese



# Ciclo de Calvin-Benson



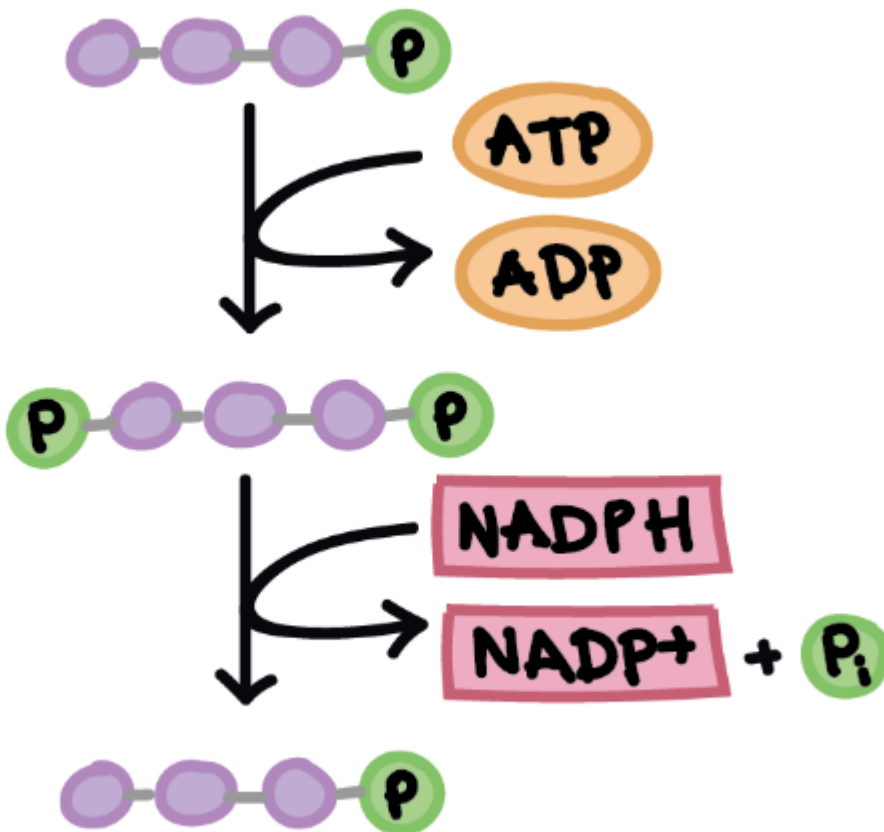
# Fixação do Carbono





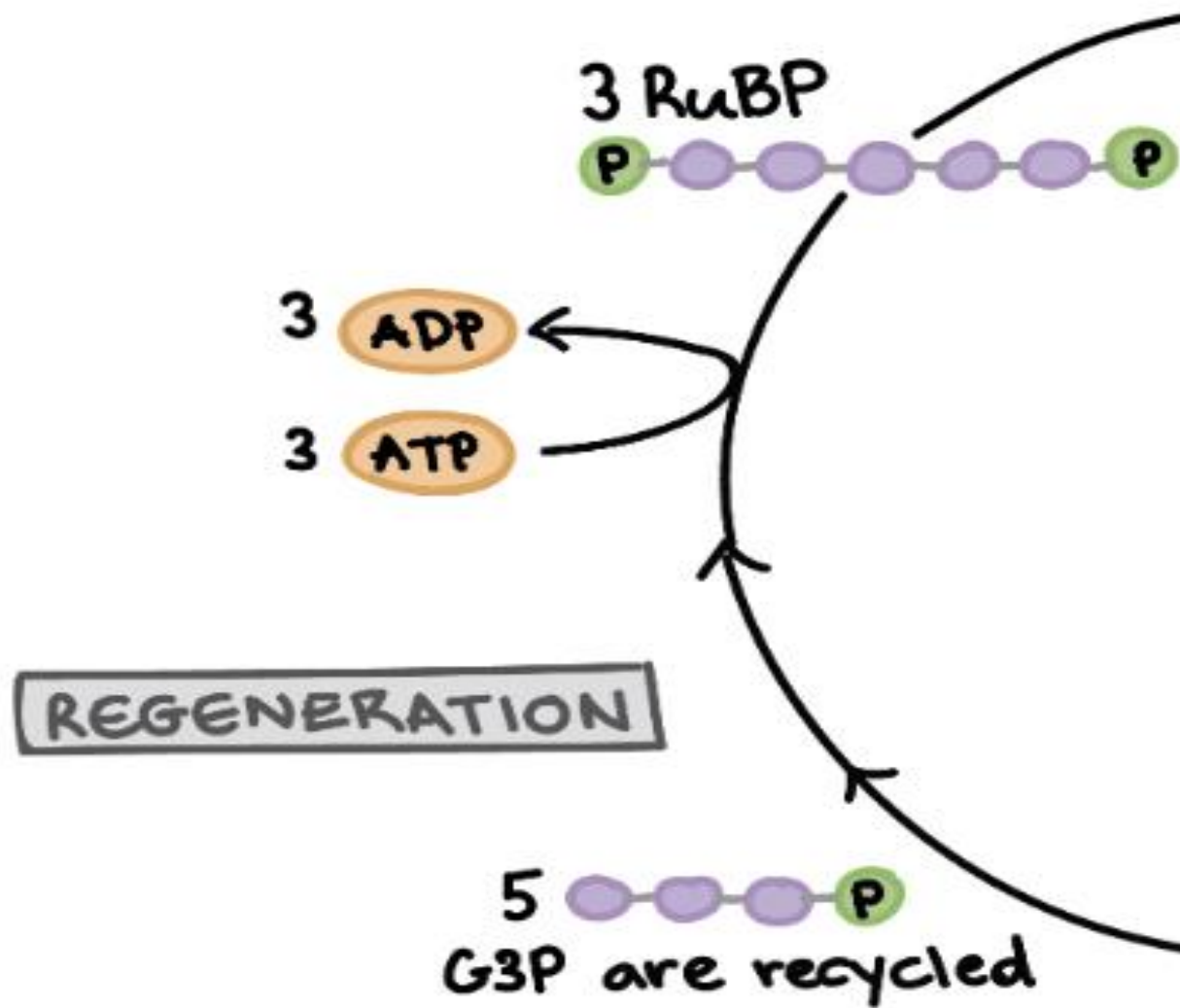
# Redução

3-phosphoglycerate (3-PGA)

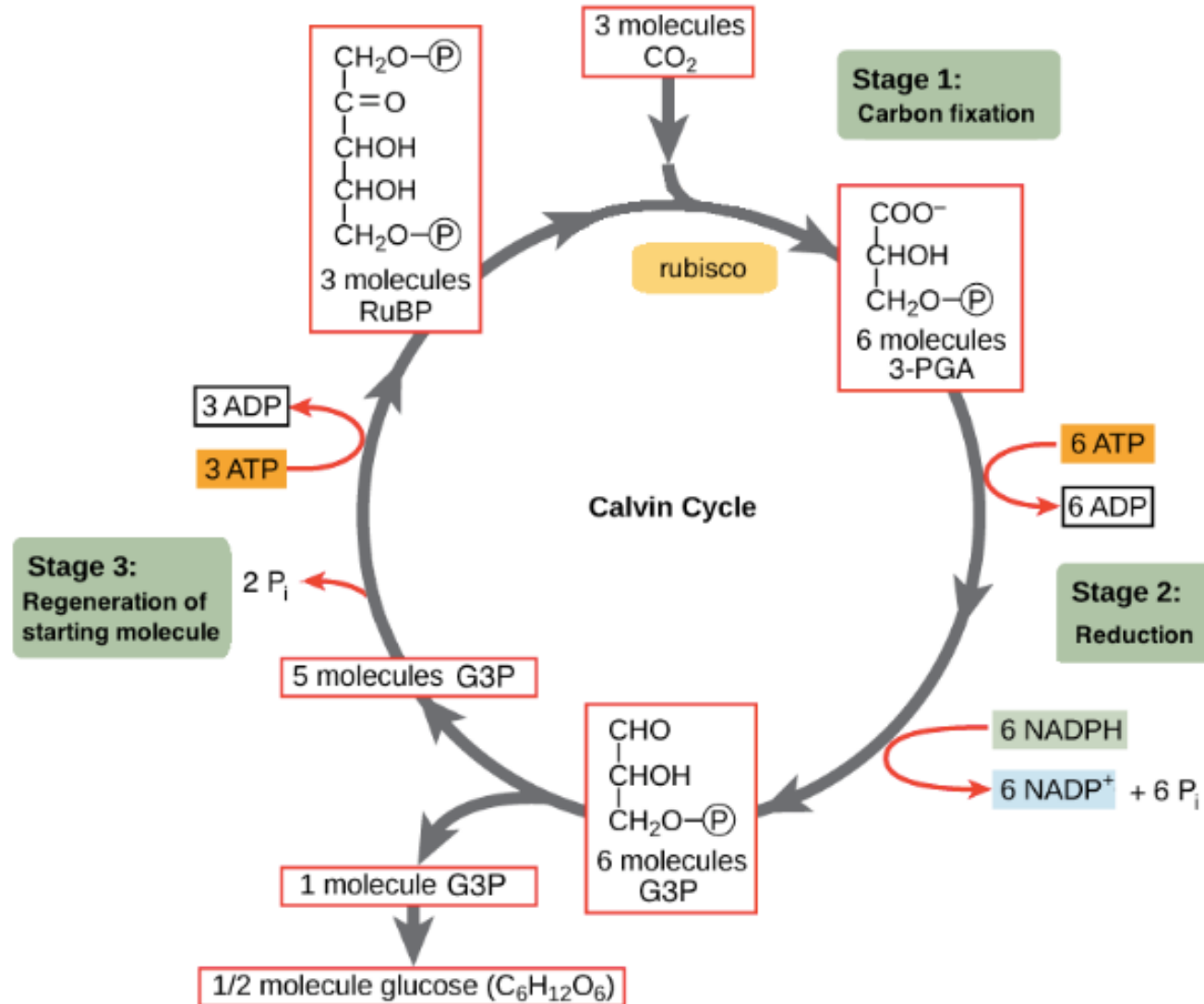


glyceraldehyde 3-phosphate (G3P)

# Regeneração



# Ciclo de Calvin-benson



**OBRIGADO!**