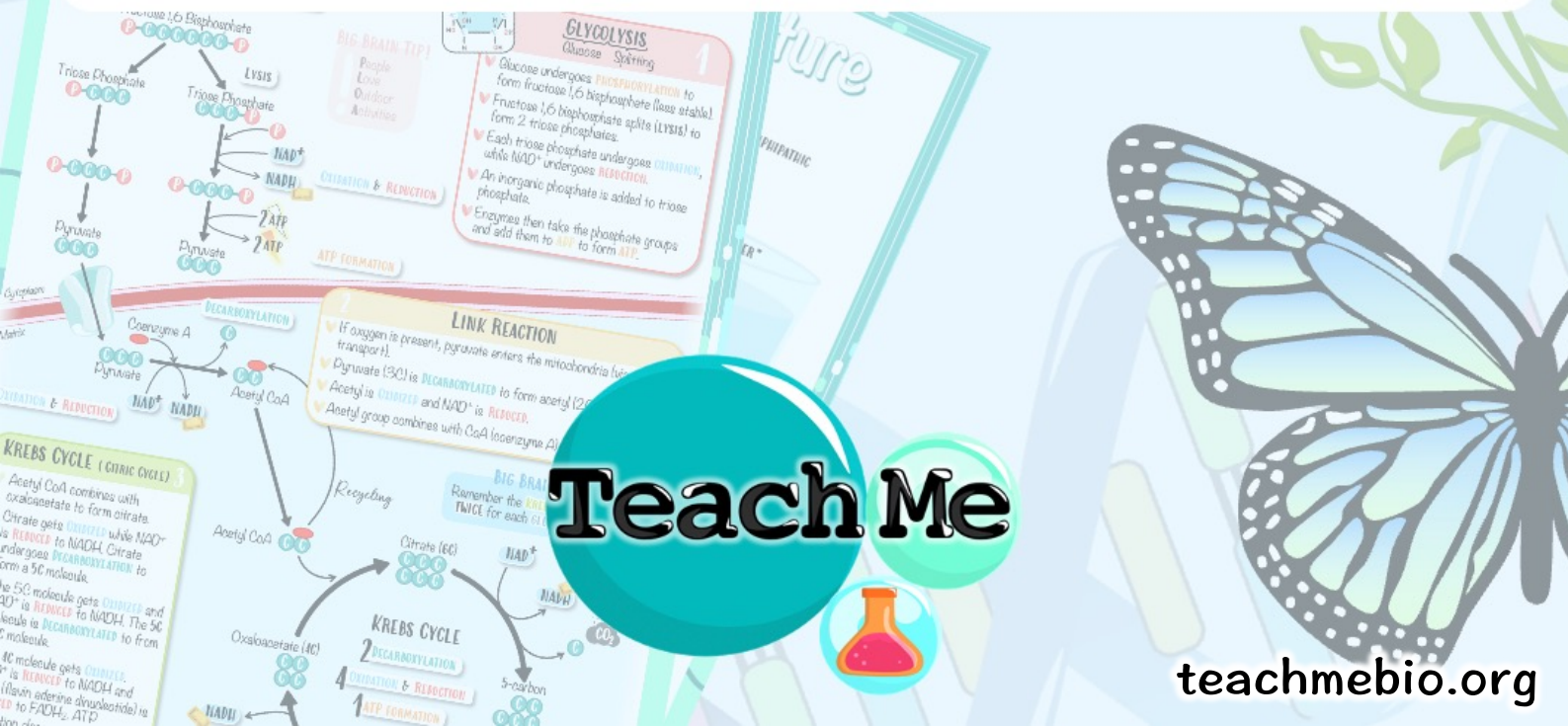


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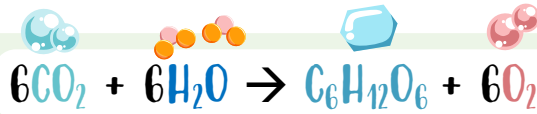
STUDY NOTES

C1.3 PHOTOSYNTHESIS (HL)

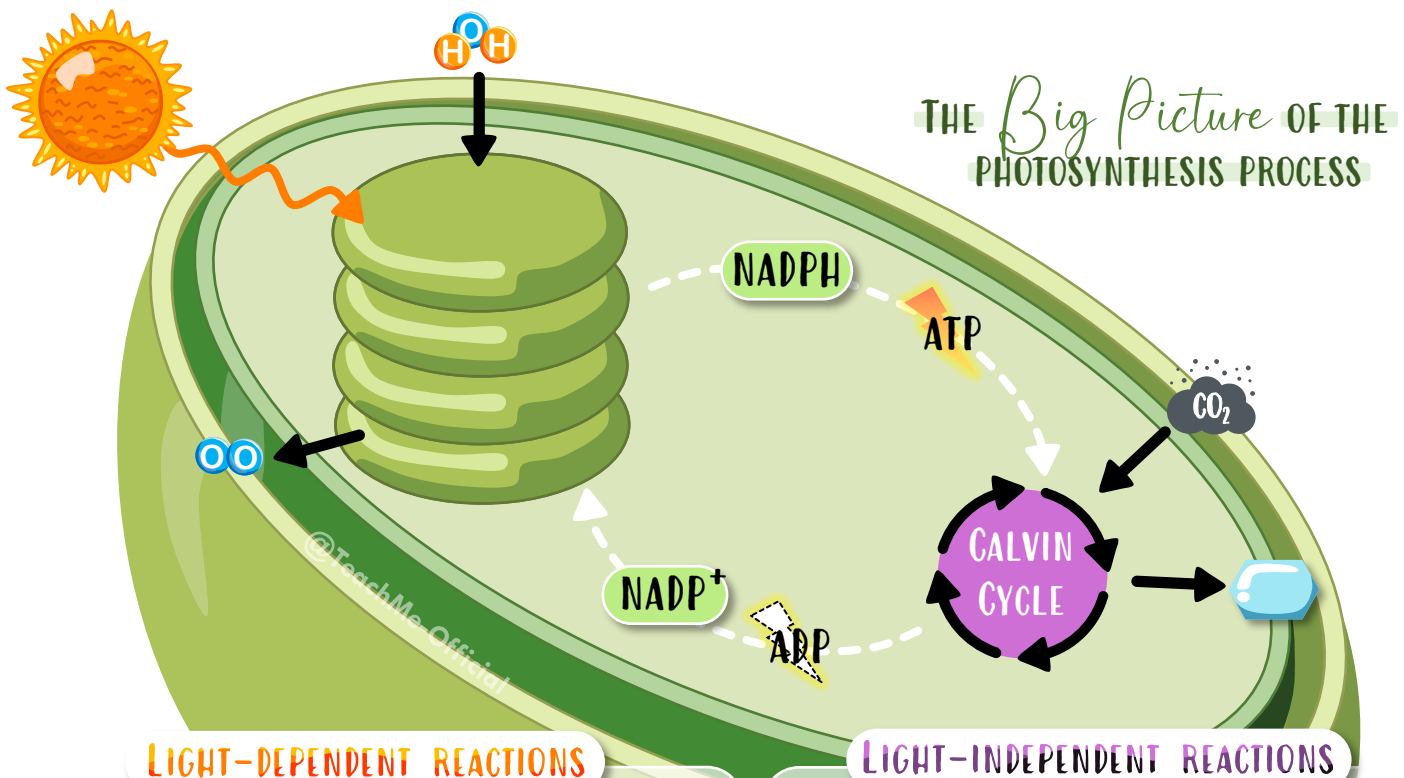
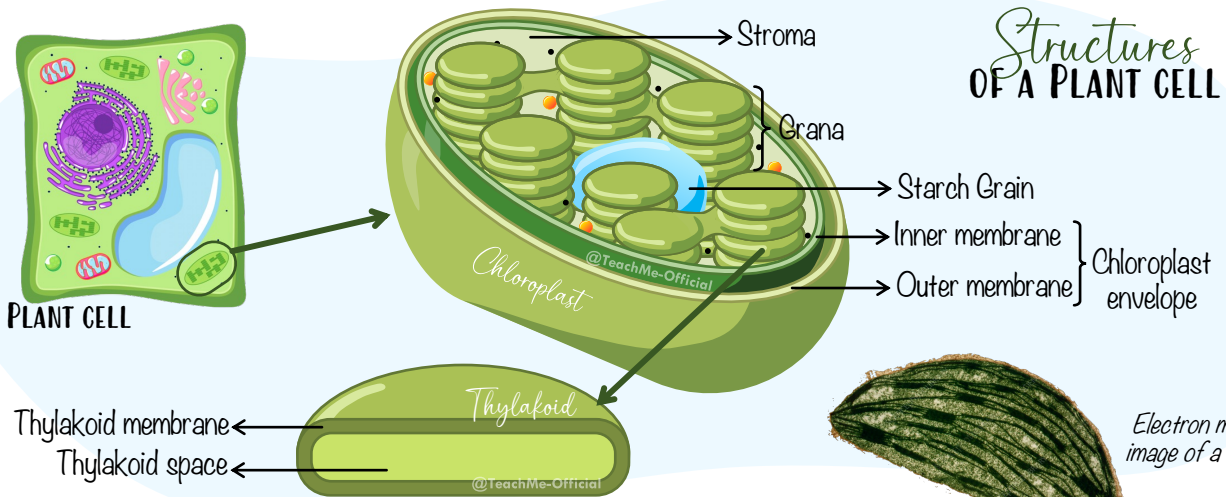


Photosynthesis (HL)

PHOTOSYNTHESIS – Synthesis of organic molecules (e.g. **GLUCOSE**) from inorganic matter (**LIGHT ENERGY** and **CARBON DIOXIDE**).

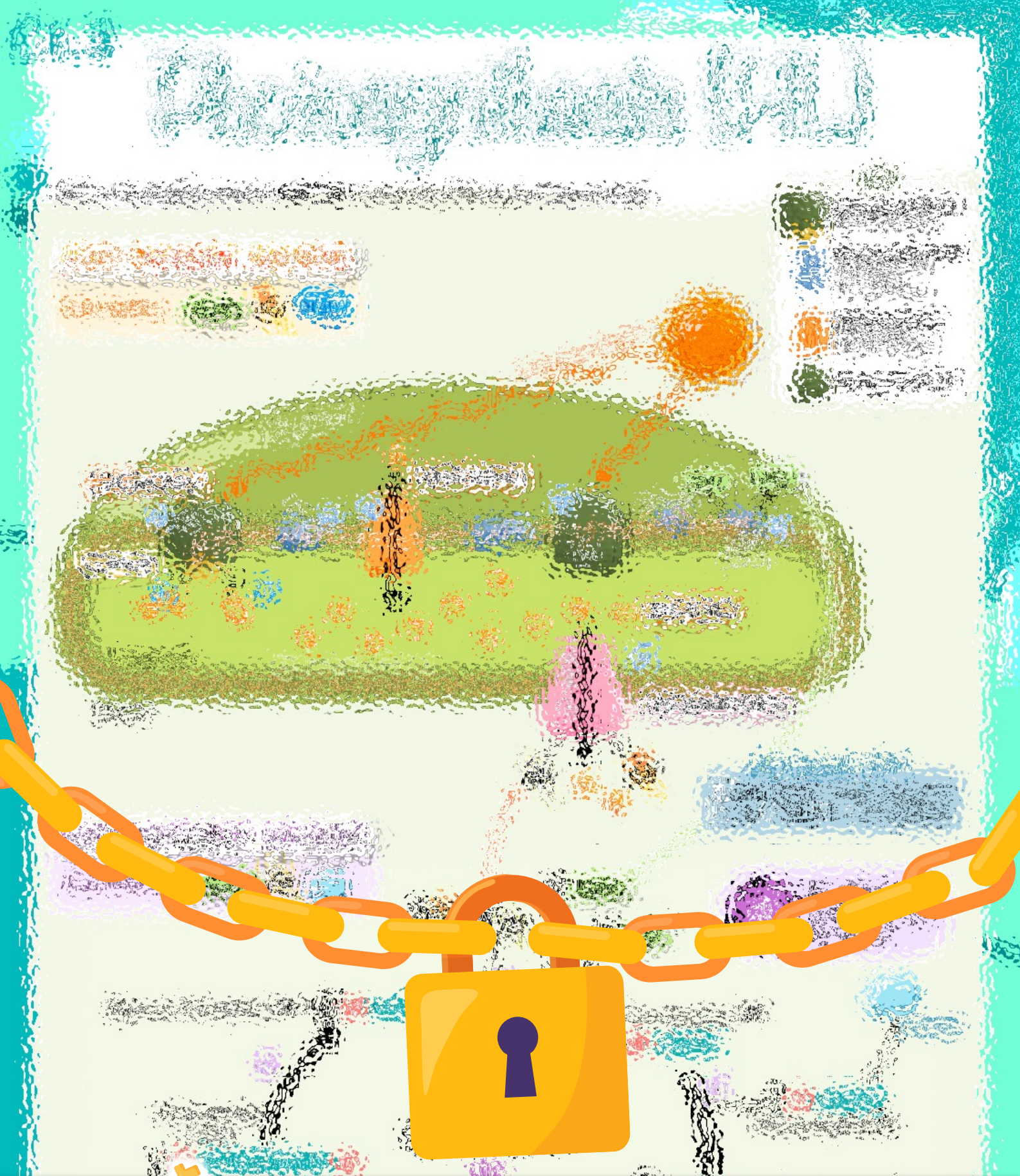


Note the similarity of the **PHOTOSYNTHESIS** equation with the one of **CELLULAR RESPIRATION**!

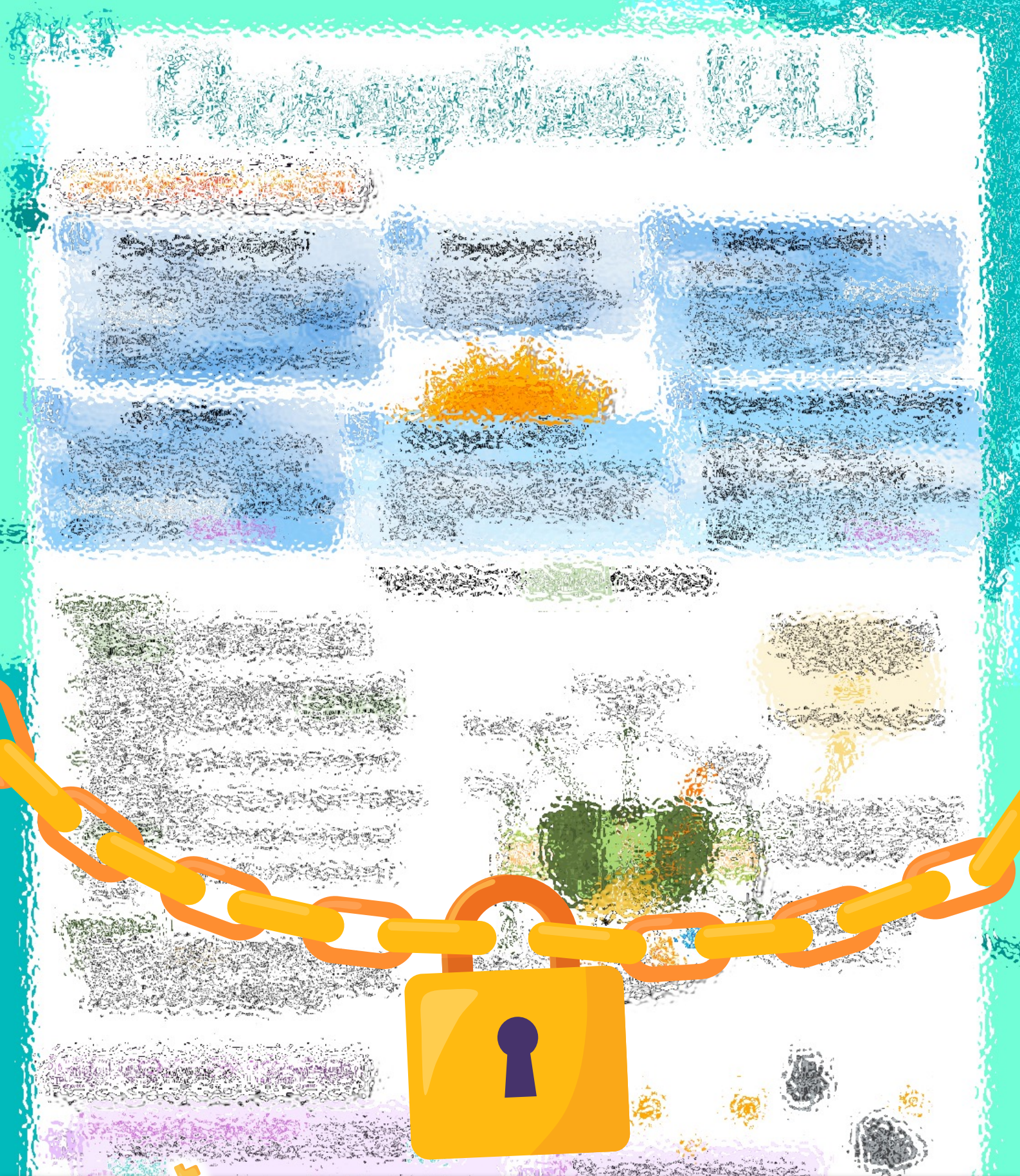


Occurs in the thylakoid membranes of the chloroplasts, where light energy is absorbed by chlorophyll, leading to the production of **ATP** and **NADPH**. Water molecules (H_2O) are split, releasing oxygen (O_2) as a byproduct.

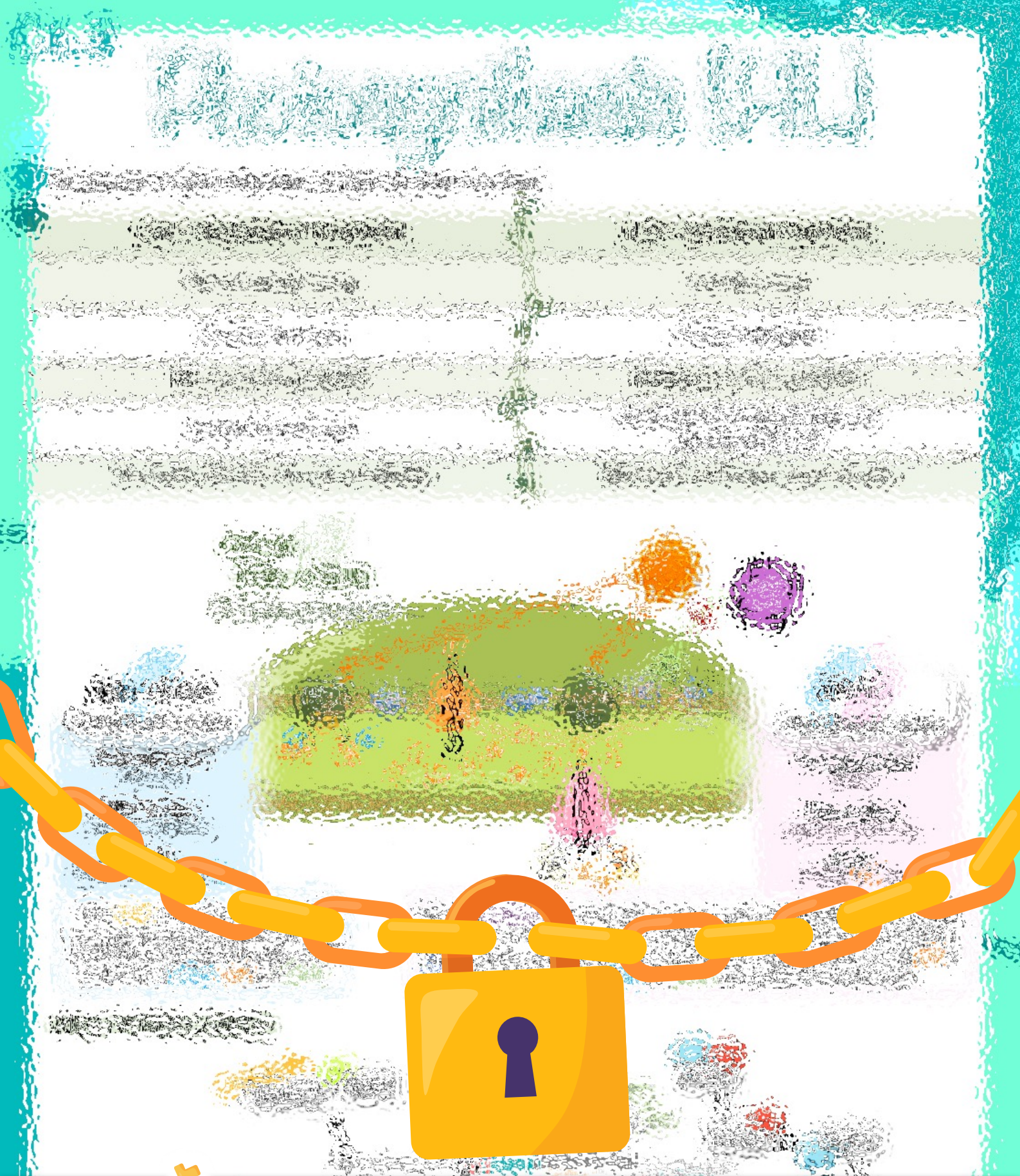
Occurs in the stroma of chloroplasts. The **ATP** and **NADPH** generated in the light-dependent reactions are used to convert CO_2 into **GLUCOSE**. This cycle does not require light and is also known as the **CALVIN CYCLE**.



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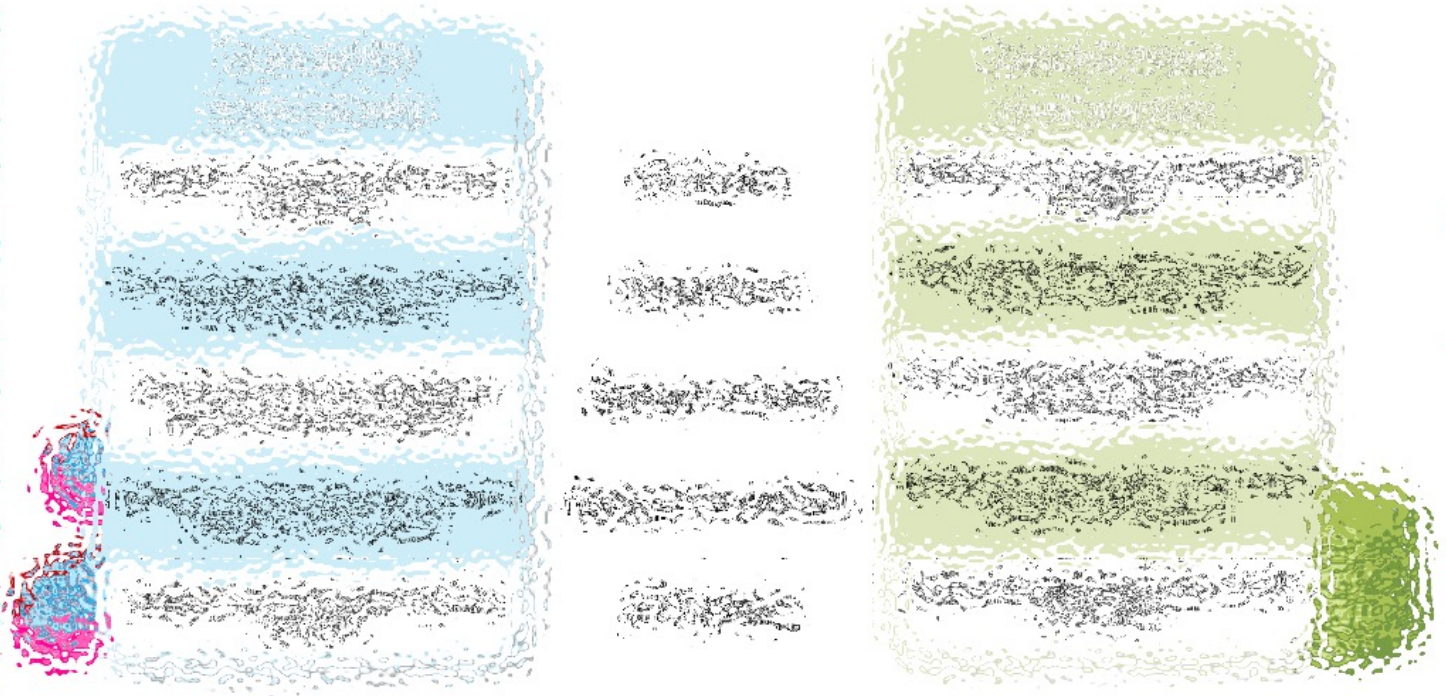
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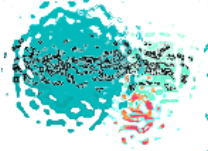
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