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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #8: Photosynthesis

Name: _____ Date: _____

You can access the video here → https://youtu.be/sQK3Yr4Sc_k?si=ISY0edEdmKDNuhA

1. Photosynthesis converts sunlight, CO₂, and water into glucose and _____ for us to breathe.
2. The light-independent reactions—also known as the _____—use ATP and NADPH to build sugars.
3. Through vascular tissues called _____, water absorbed by roots reaches the leaves.
4. CO₂ enters and O₂ exits through _____ in the leaf epidermis.
5. Inside chloroplasts, _____ store chlorophyll; these sacs stack into grana.
6. Stacks of thylakoids, called _____, increase the membrane surface area for reactions.
7. After PSI, electrons reduce NADP⁺ to _____, which carries reducing power.
8. The _____ is the space within a thylakoid sac that accumulates protons.
9. Surrounding the thylakoids is the _____, the fluid phase of the chloroplast.
10. When a photon excites an electron in chlorophyll, the process is termed _____.
11. In the first light-reaction complex, _____ replaces lost electrons by splitting water.
12. Water-splitting yields electrons, H⁺, and _____ as a by-product.
13. Between PSII and PSI, the _____ Complex both transfers electrons and pumps protons.
14. Protons flow back through _____ to pack Pi onto ADP, forming ATP.
15. In Stage 2, CO₂ is fixed to _____ by the enzyme RuBisCo.

Crash Course Biology (2012) #8: Photosynthesis - KEY

1. Photosynthesis converts sunlight, CO₂, and water into glucose and **oxygen** for us to breathe.
2. The light-independent reactions—also known as the **Calvin Cycle**—use ATP and NADPH to build sugars.
3. Through vascular tissues called **xylem**, water absorbed by roots reaches the leaves.
4. CO₂ enters and O₂ exits through **stomata** in the leaf epidermis.
5. Inside chloroplasts, **thylakoids** store chlorophyll; these sacs stack into grana.
6. Stacks of thylakoids, called **grana**, increase the membrane surface area for reactions.
7. After PSI, electrons reduce NADP⁺ to **NADPH**, which carries reducing power.
8. The **lumen** is the space within a thylakoid sac that accumulates protons.
9. Surrounding the thylakoids is the **stroma**, the fluid phase of the chloroplast.
10. When a photon excites an electron in chlorophyll, the process is termed **photoexcitation**.
11. In the first light-reaction complex, **Photosystem II (PSII)** replaces lost electrons by splitting water.
12. Water-splitting yields electrons, H⁺, and **oxygen** as a by-product.
13. Between PSII and PSI, the **Cytochrome Complex** both transfers electrons and pumps protons.
14. Protons flow back through **ATP synthase** to pack Pi onto ADP, forming ATP.
15. In Stage 2, CO₂ is fixed to **RuBP** by the enzyme RuBisCo.

15 Questions

Answer Key Included

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