

# Natural Biology

08

# Photosynthesis

MCQ

Author: OpenStax College

Published 2015

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## 4. Chapter: Biology 08 Photosynthesis MCQ

### 1. Biology 08 Photosynthesis MCQ Questions

#### 4.1.1. Which of the following components is not used by both plants and cy...

Author: OpenStax College

Which of the following components is not used by both plants and cyanobacteria to carry out photosynthesis?

Please choose only one answer:

- chloroplasts
- chlorophyll
- carbon dioxide
- water

Check the answer of this question online at QuizOver.com:

Question: [Which of the following components is not OpenStax College Biology](#)

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#### 4.1.2. What two main products result from photosynthesis?

Author: OpenStax College

What two main products result from photosynthesis?

Please choose only one answer:

- oxygen and carbon dioxide
- chlorophyll and oxygen
- sugars/carbohydrates and oxygen
- sugars/carbohydrates and carbon dioxide

Check the answer of this question online at QuizOver.com:

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#### 4.1.3. In which compartment of the plant cell do the light-independent rea...

Author: OpenStax College

In which compartment of the plant cell do the light-independent reactions of photosynthesis take place?

Please choose only one answer:

- thylakoid
- stroma
- outer membrane
- mesophyll

Check the answer of this question online at QuizOver.com:

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#### 4.1.4. Which statement about thylakoids in eukaryotes is not correct?

Author: OpenStax College

Which statement about thylakoids in eukaryotes is not correct?

Please choose only one answer:

- Thylakoids are assembled into stacks.
- Thylakoids exist as a maze of folded membranes.
- The space surrounding thylakoids is called stroma.
- Thylakoids contain chlorophyll.

Check the answer of this question online at QuizOver.com:

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#### 4.1.5. Which of the following structures is not a component of a photosystem?

Author: OpenStax College

Which of the following structures is not a component of a photosystem?

Please choose only one answer:

- ATP synthase
- antenna molecule
- reaction center
- primary electron acceptor

Check the answer of this question online at QuizOver.com:

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#### 4.1.6. How many photons does it take to fully reduce one molecule of NADP+...

Author: OpenStax College

How many photons does it take to fully reduce one molecule of NADP+ to NADPH?

Please choose only one answer:

- 1
- 2
- 4
- 8

Check the answer of this question online at QuizOver.com:

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#### 4.1.7. Which complex is not involved in the establishment of conditions fo...

Author: OpenStax College

Which complex is not involved in the establishment of conditions for ATP synthesis?

Please choose only one answer:

- photosystem I
- ATP synthase
- photosystem II
- cytochrome complex

Check the answer of this question online at QuizOver.com:

Question: [Which complex is not involved in the OpenStax College Biology 08](#)

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#### 4.1.8. From which component of the light-dependent reactions does NADPH fo...

Author: OpenStax College

From which component of the light-dependent reactions does NADPH form most directly?

Please choose only one answer:

- photosystem II
- photosystem I
- cytochrome complex
- ATP synthase

Check the answer of this question online at QuizOver.com:

Question: [From which component of the light-dependent OpenStax College Biology](#)

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#### 4.1.9. Which molecule must enter the Calvin cycle continually for the ligh...

Author: OpenStax College

Which molecule must enter the Calvin cycle continually for the light-independent reactions to take place?

Please choose only one answer:

- RuBisCO
- RuBP
- 3-PGA
- CO<sub>2</sub>

Check the answer of this question online at QuizOver.com:

Question: [Which molecule must enter the Calvin cycle OpenStax College Biology](#)

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#### 4.1.10. Which order of molecular conversions is correct for the Calvin cycle?

Author: OpenStax College

Which order of molecular conversions is correct for the Calvin cycle?

Please choose only one answer:

- RuBP + G3P → 3-PGA → sugar
- RuBisCO → CO<sub>2</sub> → RuBP → G3P
- RuBP + CO<sub>2</sub> → [RuBisCO] → 3-PGA → G3P
- CO<sub>2</sub> → 3-PGA → RuBP → G3P

Check the answer of this question online at QuizOver.com:

Question: [Which order of molecular conversions is OpenStax College Biology](#)

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#### 4.1.11. Where in eukaryotic cells does the Calvin cycle take place?

Author: OpenStax College

Where in eukaryotic cells does the Calvin cycle take place?

Please choose only one answer:

- thylakoid membrane
- thylakoid lumen
- chloroplast stroma
- granum

Check the answer of this question online at QuizOver.com:

Question: [Where in eukaryotic cells does the Calvin OpenStax College Biology](#)

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#### 4.1.12. Which statement correctly describes carbon fixation?

Author: OpenStax College

Which statement correctly describes carbon fixation?

Please choose only one answer:

- the conversion of CO<sub>2</sub> into an organic compound
- the use of RuBisCO to form 3-PGA
- the production of carbohydrate molecules from G3P
- the formation of RuBP from G3P molecules
- the use of ATP and NADPH to reduce CO<sub>2</sub>

Check the answer of this question online at QuizOver.com:

Question: [Which statement correctly describes carbon OpenStax College Biology](#)

Flashcards:

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