



Photosynthesis - Advanced Biology Study Notes: For teachers & students (includes a mock exam)

Andrew Williams Ph.D.

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Advanced Biology Study Notes - Photosynthesis - For teachers & students

When I was a newly qualified teacher, photosynthesis scared me, so I wrote this book for teachers & students struggling with this topic at advanced level (by "advanced level", I'm taking pre-university, 16-18 year old students). While this book will help newly qualified teachers tackling the subject for the first time, it will also provide a structured set of notes for advanced students to work with as they study this topic.

Contents of the book

1. Introduction – energy
 - 1.1. Animals hunt their food, plants cannot – they have to make it.
 - 1.2. Metabolic reactions
 - 1.3 Adenosine TriPhosphate (ATP)
2. Plant Adaptations to Photosynthesis
 - 2.1. The leaf as a photosynthetic organ
 - 2.1.1. Palisade cells
 - 2.1.2. Chloroplasts
 - 2.1.3. The Site of light-dependent and light-independent reactions
 - 2.2. Pigments involved in photosynthesis
 - 2.2.1. Absorption v Action spectrums of photosynthetic pigments
3. The two main reactions in Photosynthesis
 - 3.1. Light-Dependent Reactions
 - 3.1.1. Summary of cyclic v non-cyclic
 - 3.2. Light-Independent Reactions
 - 3.2.1. Calvin's Lollipop experiment
 - 3.2.2. The Calvin Cycle
 - 3.2.3. Fate of TP
 - 3.3. Photosynthesis summary: Linking the light reaction to the light-independent reaction.
4. Limiting factors
 - 4.1. Light
 - 4.2. Carbon dioxide
 - 4.3. Temperature
 - 4.4. Chlorophyll
 - 4.5. Water
5. Practical Work
 - 5.1. Measuring the effect of light on the rate of photosynthesis
 - 5.1.1. Extending this practical

- 5.2. Carbon dioxide
- 5.3. Temperature
- 5.4. Compensation point
- 5.4.1. Preparing hydrogencarbonate indicator stock solution:
- 5.5. Gas analysis
- 5.5.1. Where to go next?
- 6. Photosynthesis Examination & Student Handouts

What else is included?

The book includes a download link to all of the images found in this book, as well as a practice examination and full mark scheme. The image downloads can be used in your own worksheets / teaching aids, while the exam and mark scheme can be used to test your students. This comes as a PDF for easy printing as well as a Word document in case you want to edit it.

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