

# Chapter 8 Study Guide – OpenStax Biology 2e

## Reading Assignment:

For this chapter you should read all sections of chapter 8. For the light-dependent reactions you will need to know the details about photosystems, electron transport, ATP and NADPH production, and chemiosmosis in the chloroplast. For the Calvin cycle you should focus on a summary of the 3 parts – what are the reactants and products for each of the three parts of the cycle.

## Terms to know and understand:

Absorption Spectrum	Electromagnetic spectrum	Photosystem I
Antenna protein	Electron transport chain	Photosystem II
<b>Calvin cycle*</b> (see note)	Granum	Pigment
Carbon fixation	Heterotroph	Primary electron acceptor
Carotenoid	Light harvesting complex	Reaction Center
Chemoautotroph	Light-dependent reaction	Reduction
Chemiosmosis ( <i>ATP</i> <i>generation – see page</i> <i>237</i> )	Light-independent reaction*(see note)	Stroma
Chlorophyll (a and b)	Mesophyll	Thylakoid
Chloroplast	Oxidation	Thylakoid lumen
Cytochrome complex	Photoautotroph	Wavelength
	Photon	

**\*Note: The Calvin Cycle is often referred to as the “light independent reactions” or the “dark reactions” (although they don’t occur only in the dark).** You might see this terminology in videos and tutorials. This study guide will always refer to this part of photosynthesis as the Calvin Cycle.

## Chapter Review Questions:

1. Draw a chloroplast and label the outer membrane, inner membrane, thylakoid membrane, lumen, and the stroma.

\*see attachment\*

2. Write out the equation for photosynthesis.



# Chapter 8 Biology Study Guide Answers

**Jeffrey C. Pommerville**



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