

# 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

**Arshad Iqbal**



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