Name:	Date: Period #:
	Photosynthesis Webquest
1.	View the overall process of photosynthesis
	http://earthguide.ucsd.edu/earthguide/diagrams/photosynthesis/photosynthesis.html
	What are the reactants (starting materials)?
2.	Go to <a href="http://www.pbs.org/wgbh/nova/methuselah/phot_flash.html">http://www.pbs.org/wgbh/nova/methuselah/phot_flash.html</a>
	- Click on the Cycle
	- Click on Atomic Shuffle
	o What are the names of the holes in the leaves?
	o What is the equation for photosynthesis?
	- Click on Three Puzzlers
	o If all of its oxygen was removed, would a plant be able to survive? Explain your answer.
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3.	Go to the website <a href="http://www.phschool.com/science/biology_place/biocoach/photosynth/overview.html">http://www.phschool.com/science/biology_place/biocoach/photosynth/overview.html</a>
	- Concept 1 An Overview of Photosynthesis
	o During photosynthesis energy changes forms. Solar (light) energy is converted to what type
	of energy during photosynthesis?
	- Concept 2 Electromagnetic Spectrum
	o What is the range in wavelengths of visible light?
4.	Go to the website <a href="http://highered.mcgraw-">http://highered.mcgraw-</a>
	$\underline{hill.com/olcweb/cgi/pluginpop.cgi?it=swf::535::535::/sites/dl/free/0072437316/120072/bio13.swf}$
	::Photosynthetic Electron Transport and ATP Synthesis
	a. Which organelle is the site of photosynthesis?
	b. What are the stacks of membranes inside the chloroplast?
	c. What is the semiliquid substance inside the chloroplast?
	d. From what molecule (reactant) does photosystem II get its replacement electrons from?

5.	Go to the website		
	http://	www.wiley.com/legacy/college/boyer/0470003790/animations/photosynthesis/photosynthesis.htm	
	a.	In your own words, describe the process of photosynthesis at the molecular level.	
	b.	What is the role of the NADPH molecule in photosynthesis?	
	c.	Click on Strategy/Players tab on the left.	
		i. What are the two main stages of photosynthesis?	
		ii. Hover over the chloroplast. What are stacks of thylakoids called?	
	d.	Click on light reactions. What happens when light strikes the pigments?	