IB Biology		Per 1(3)				10/21-10/25
	Unit/Theme	Objectives	Activities	Homework	Closure/Review	Assessment
MON	2.9 Photosynthesis (2x83min)	• Photosynthesis is the production of carbon compounds in cells using light energy. • Visible light has a range of wavelengths with violet the shortest wavelength and red the longest. • Chlorophyll absorbs red and blue light most effectively and reflects green light more than other colors. • Oxygen is produced in photosynthesis from the photolysis of water. • Energy is needed to produce carbohydrates and other carbon compounds from carbon dioxide. • Temperature, light intensity and carbon dioxide concentration are possible limiting factors on the rate of photosynthesis. • Application: Changes to the Earth's atmosphere, oceans and rock deposition due to photosynthesis. • Skill: Drawing an absorption spectrum for chlorophyll and an action spectrum for photosynthesis. • Skill: Design of experiments to investigate the effect of limiting factors on photosynthesis. • Skill: Separation of photosynthetic pigments by chromatograph. (Practical 4)	• Turn in Glycolysis Lab • Turn in Cell Respiration Lab • Notes/Lecture: 2.9 Photosynthesis *EI *NoS *Equation *Properties of Light *Chlorophyll *Limiting Factors • Practical 4: Chromatography *Run Spinach Control *Run 2 other trials with different specimens *re-create data tables for two other specimens	• Read Photosynthesis Lab (S61 to end) • Chromatography Lab Due	• Corrected Differences for data	• Cell Respiration Lab
TUES	No Class	No Class	No Class	No Class	No Class	No Class
WED	2.9 Photosynthesis (83min)	• Photosynthesis is the production of carbon compounds in cells using light energy. • Visible light has a range of wavelengths with violet the shortest wavelength and red the longest. • Chlorophyll absorbs red and blue light most effectively and reflects green light more than other colors. • Oxygen is produced in photosynthesis from the photolysis of water. • Energy is needed to produce carbohydrates and other carbon compounds from carbon dioxide. • Temperature, light intensity and carbon dioxide concentration are possible limiting factors on the rate of photosynthesis. • Application: Changes to the Earth's atmosphere, oceans and rock deposition due to photosynthesis. • Skill: Drawing an absorption spectrum for chlorophyll and an action spectrum for photosynthesis. • Skill: Design of experiments to investigate the effect of limiting factors on photosynthesis. • Skill: Separation of photosynthetic pigments by chromatograph. (Practical 4)	• Turn in Chromatography Lab • Notes/Lecture: 2.9 Photosynthesis *Light Dependent Rxn *Dark Rxn *Types of Plants *Effect on Earth	• DBQ 134 • Read 2.9 • Read Photosynthesis Lab	• Experimental Design Variables and controls	• Photosynthesis Lab
THURS	No Class	No Class	No Class	No Class	No Class	No Class
FRI	Nevada Day No School	Nevada Day No School	Nevada Day No School	Nevada Day No School	Nevada Day No School	Nevada Day No School