Review B4 Bioenergetics

iteview by bioenergeties	1			
	Covered in class	Strength/weakness?	Answered Exam Q	Kerboodle page
4.1 Photosynthesis				
State the word equation for photosynthesis				124
Write a balanced symbol equation for photosynthesis (HT Only)				124
Explain how leaves are adapted for photosynthesis				125
State the factors that affect the rate of photosynthesis				126
Explain limiting factors				126
Explain graphs of photosynthesis rate involving two or three factors and decide which is the limiting factor (HT only)				126
Explain how limiting factors are important in the economics of enhancing the conditions in greenhouses to gain the maximum rate of photosynthesis while still maintaining profit (HT only)				130
Explain the relationship between light intensity and the inverse square law (HT only)				127
State the uses of glucose by plants				128
Know how plant use nitrate ions that are absorbed from the soil.				129
4.4.2 Respiration				
Compare the processes of aerobic and anaerobic respiration with regard to the need for oxygen, the differing products and the relative amounts of energy transferred.				134
Define aerobic and anaerobic respiration				134
State that reactions which transfer energy to the environment are exothermic reactions				134
Name three things organisms need energy for				135
State the word equation for aerobic respiration				134
Write a balanced symbol equation for aerobic respiration (HT only)				134
State the word equation for anaerobic respiration in muscles				138
The energy transferred supplies all the energy needed for living processes.				134
State that anaerobic respiration in yeast cells is called fermentation and has economic importance in the manufacture of bread and alcoholic drinks				139
Explain why anaerobic respiration takes place in muscles during exercise				136
Explain muscle fatigue and oxygen debt				138
Define the role of the liver in the removal of lactic acid (HT only)				141
Define metabolism				140
State five metabolic processes				140