

2.2.5 Respiration




Self Assessment

Where is your learning at?

Green : I know it all

Orange : I have some idea – study the sections in more detail

Red : I need to start studying this section

	Can You	Green 	Orange 	Red 
1	Define the term Aerobic respiration			
2	Explain the role of aerobic respiration in living things			
3	Express aerobic respiration by a balanced equation			
4	Explain why aerobic respiration is a two stage process			
5	State what happens during stage 1			
6	State where in the cell stage 1 takes place			
7	State what happens during stage 2			
8	State where in the cell stage 2 takes place			
9	State the difference between the cytosol and the cytoplasm			
10	Define the term Anaerobic respiration			
11	Explain why anaerobic respiration is a one stage process			
12	Name the products of anaerobic respiration			
13	Say which type of respiration releases more energy?			
14	Explain the term fermentation			
15	State what type of microorganisms play a role in fermentation			
16	Explain what a bioreactor is			
17	Outline how microorganisms are used in bioprocessing			
18	Explain the advantages of bioprocessing with immobilised cells			
19	Describe how to investigate the production of alcohol by yeast			
20	Draw a labelled diagram to show how you would carry out this investigation			

2.2.10.H Respiration

Extended Study




Self Assessment

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	Can You	Green 	Orange 	Red 
1	State what is meant by Glycolysis			
2	State where glycolysis takes place			
3	State the end products of glycolysis			
4	State the end products of fermentation [anaerobic conditions] of the pyruvate molecule in plants and yeast			
5	State the end products of fermentation [anaerobic conditions] of the pyruvate molecule in animals and bacteria			
6	State where the second-stage process, under aerobic conditions, occurs			
7	Say what two molecules the the pyruvate molecule is broken down to			
8	Describe what happens during the Krebs' cycle			
9	State what ultimately happens the electrons removed from the substrate intermediates in Krebs' cycle			
10	State what use is made of the energy released by these electrons through the electron transport chain			

