

Digestion and respiration (BBL7) – Revision Checklist

I can...	Lesson	Revised
Describe diffusion	BBL7 LE1	
Describe diffusion in terms of cells	BBL7 LE1	
Give examples of substances that enter and exit cells by diffusion	BBL7 LE1	
Explain how concentration gradient affects the rate of diffusion	BBL7 LE1	
Explain how temperature affects the rate of diffusion	BBL7 LE1	
Explain how surface area affects the rate of diffusion	BBL7 LE2	
Explain why single-celled organisms have a large surface area to volume ratio	BBL7 LE2	
Explain why multicellular organisms need transport systems	BBL7 LE2	
Explain why multicellular organisms need specialised exchange surfaces	BBL7 LE2	
Describe how the lungs and intestines are adapted for efficient exchange	BBL7 LE2	
Describe how plant roots and leaves are adapted for efficient exchange	BBL7 LE2	
Describe how fish gills are adapted for efficient exchange	BBL7 LE2	
Explain the features of effective exchange surfaces	BBL7 LE2	
Describe the digestive system as an organ system	BBL7 LE3	
Describe enzymes as biological catalysts	BBL7 LE4	
Explain how enzyme activity is affected by temperature	BBL7 LE4	
Explain how enzyme activity is affected by pH	BBL7 LE4	
Describe the lock and key model	BBL7 LE4	
Explain why enzymes are described as specific	BBL7 LE4	
Describe denaturing	BBL7 LE5	
State where amylase, protease and lipase are produced.	BBL7 LE5	
State the sites of action of amylase, protease and lipase.	BBL7 LE5	
Write and understand simple word equations	BBL7 LE5	
Describe the action of carbohydrases	BBL7 LE5	
Describe the action of amylase, as an example of a carbohydrase	BBL7 LE5	
Describe the action of proteases	BBL7 LE5	
Describe the action of lipases	BBL7 LE5	
Describe a method to investigate the activity of enzymes in different pHs and temperatures	BBL7 LE6	
Identify sources of error in an investigation of enzyme activity in different pHs and temperatures	BBL7 LE6	
Describe the process of digestion	BBL7 LE3	
State the use of each product of digestion	BBL7 LE3	
Describe the chemical test and positive result for protein	BBL7 LE3	
Describe the chemical test and positive result for reducing sugars (glucose)	BBL7 LE3	
Describe the chemical test and positive result for starch	BBL7 LE3	
Describe the chemical test and positive result for lipids	BBL7 LE3	
Describe a method to determine the presence of protein, glucose, starch and lipids in food.	BBL7 LE3	
State where bile is produced and stored	BBL7 LE4	
Explain the importance of bile in the process of digestion	BBL7 LE5	
Define respiration	BBL7 LE7	
Explain the importance of respiration	BBL7 LE7	
Describe the uses of energy transferred by respiration	BBL7 LE7	
State the word and symbol equation for aerobic respiration	BBL7 LE7	
Describe anaerobic respiration in animals and plants	BBL7 LE7	
Compare aerobic and anaerobic respiration	BBL7 LE7	
Define fermentation	BBL7 LE7	

Describe uses of fermentation	BBL7 LE7	
Define metabolism	BBL7 LE9	
Describe key metabolic processes, including the formation of amino acids and the breakdown of excess proteins.	BBL7 LE9	
Explain the importance of sugars	BBL7 LE9	
Explain the importance of amino acids	BBL7 LE9	
Explain the importance of fatty acids	BBL7 LE9	
Explain the importance of glycerol	BBL7 LE9	
Describe how the body responds to exercise	BBL7 LE8	
Explain why the heart rate increases during exercise	BBL7 LE8	
Explain why breath volume increases during exercise	BBL7 LE8	
Explain why muscles may respire anaerobically	BBL7 LE8	
Explain lactic acid build-up	BBL7 LE8	
Define oxygen debt	BBL7 LE8	
Explain why muscles become fatigued	BBL7 LE8	
(HT) Explain how lactic acid is transported to the liver and converted back to glucose	BBL7 LE8	