

## Year 8 Science: Topic 8B. Respiration



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Pre	eviously	. In year	In year 7 you will have learned about cells as the basic building blocks of all life, as well as how the digestive and respiratory system helps keep us alive.							
Th	nis year	We w	We will build upon this by looking at how the body uses the products of digestion to fuel							
our everyday activities, exercise and even our sleep!										
	We will be learning about									
	Everyone has felt like they have had "low energy" days- but where do or bodies actually get "energy"							'energy"		
	from? Food and Oxygen play a crucial role in fuelling our bodies to do anything and everything, and in								ng, and in	
	this unit we will look at how our bodies use these reactants to release energy.									
	We will then move onto look at what our bodies do when there is not enough oxygen available and									
	how different athletes will release energy in slightly different ways depending on the sport they play.									
Key Practicals: The effect of exercise on the body; Proving the products of respiration										
We will develop our learning by studying the following each lesson:								Skills in		
									Science	
9P 04 Pagniration								Ticklist		
8B.01 Respiration								☐ Scientific Methods		
Recall the aerobic respiration equation									☐ Practical ☐ Number skills	
Describe how glucose gets into cells and where respiration happens								☐ Application		
To be	To be able to Apply the respiration equation to everyday scenarios									
8B.02 – Anaerobic respiration in Humans										
Scientific   Practical									☐ Scientific Methods ☐ Practical	
									☐ Number skills ☐ Application	
Describe the conditions that will sadde Hamans to do Anacrobio respiration									☐ Communication	
8B.03- Fermentation									☐ Scientific Methods	
Recal	Recall the Anaerobic respiration equation in plants									
	Investigate the effects of temperature on the rate of anaerobic respiration in yeast									
Expla	Explain the applications of anaerobic respiration in Plants									
Key Vocabulary										
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Mito	chondria	Respiration	Aerobic	Anaerobi	Carbon	Oxygen	Ethanol	Metabolism	Lactic	
				С	Dioxide				Acid	
			VI41- ! !4	£ £	<b></b>					

	What's in it for you for your future learning journey?							
In life	Everyone gets hungry, and whether you are looking at getting into sports nutrition or want to understand why you get sore after exercise, this unit will give you a better understanding of how your body is using the food you eat.							
	Looking at anaerobic respiration in plants is the fundamental science in making certain foods, such as baking and brewing alcoholic beverages. Who knows, you could be the next Star baker of the Great British Bake off!							