

Checklist for Respiration and Photosynthesis:

<i>Do you know / Can you do the following?</i>	<i>I don't know this! I need to study it.</i>	<i>I slightly understand it, need some revision.</i>	<i>Good to go.</i>
Define respiration – what is it for? – and state where and when it takes place.		h	
Give word and chemical equations for aerobic respiration.	h		
Give word equations for anaerobic respiration in both bacteria and humans.	h		
State similarities and differences (COMPARE) aerobic and anaerobic respiration.		h	
Know the differences between the air we breathe in and the air we breathe out, and the reasons for this.		h	
Know how to show, in a laboratory, that we breathe out more CO ₂ than we breathe in.			
Understand that respiration is a form of combustion.			
Define photosynthesis – what is it for? – and state where and when it takes place.		h	
Give word and chemical equations for photosynthesis.		h	
Know how to test a leaf for the presence of starch.			
Know what might happen to the products of photosynthesis in a plant.			
Know the structure of a cross section through a typical leaf and be able to explain the importance of each layer.			
State the factors that affect the rate of photosynthesis.		h	
Understand the concept of limiting factors as applied to photosynthesis.			
Understand the relationship between photosynthesis and respiration.		h	

