

## Photosynthesis and respiration



Class\_ Name Date 1. glucose + 2 ATP -> 2 pyruvic acid + 4 ATP Respiration is best described as a 2.2 pyruvic acid + oxygen -> carbon dioxide + water + 34 ATP process by which Two molecules of ATP are needed in equation 1 A necessary nutrients are circulated so that **B** hydrogen is used to synthesize glucose A oxygen is added to hydrogen in glucose C metabolic wastes are absorbed energy needed to activate this reaction is D chemical energy is converted into a provided usable form energy needed to trap radiant energy is provided D glucose is split into hydrogen 3 1. glucose + 2 ATP -> 2 pyruvic acid + 4 ATP 1. glucose + 2 ATP  $\xrightarrow{\Upsilon}$  2 pyruvic acid + 4 ATP 2. 2 pyruvic acid + oxygen Y carbon dioxide + water + 34 ATP In animals, the reaction in equation 2 What does letter Y represent? occurs in the 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet CALDOTT GIOXIDE TEACIS **B** hydrolysis with hydrogen. **C** photosynthesis C PGAL molecules are changed to sugar. **D** respiration D Oxygen is combined with carbon dioxide. The synthesis of carbohydrates occurs in One immediate cause of a decrease in the 10 the stroma of chloroplasts. This process rate of photosynthesis is a reduction in uses energy supplied by the availability of A carbon dioxide A ATP **B** carbon monoxide B CO. C hydrogen C PGAL **D** nitrogen D O



## Photosynthesis and respiration - Answer Key



Name	C	lass	Date
1	Respiration is best described as a process by which  A necessary nutrients are circulated B hydrogen is used to synthesize glucose C metabolic wastes are absorbed D chemical energy is converted into a usable form	1. glucose + 2 ATP → 2 pyruv  2. 2 pyruvic acid + oxygen → carbon dioxide + water + 34 A  Two molecules of ATP are no so that  A oxygen is added to hydrogen energy needed to activate provided  C energy needed to trap race provided  D glucose is split into hydrogen	eeded in equation 1 gen in glucose this reaction is
3	1. glucose + 2 ATP	1. glucose + 2 ATP Y 2 p  2. 2 pyruvic acid + oxygen carbon dioxide + water +  What does letter Y represe	- 34 ATP
5	PREV	ABC PART OF THE PA	D
7	Please Sign In or Sign	_	changed to sugar.
9	The synthesis of carbohydrates occurs in the stroma of chloroplasts. This process uses energy supplied by  A ATP B CO <sub>2</sub> C PGAL D O <sub>2</sub>	One immediate cause of a rate of photosynthesis is the availability of  A carbon dioxide B carbon monoxide C hydrogen D nitrogen	