

## **Thank You!**

Thank you for downloading this resource from TPT. I appreciate your support. If you would like to contact me with any questions or concerns, feel free to reach out to <u>thewallsscience@gmail.com</u>.



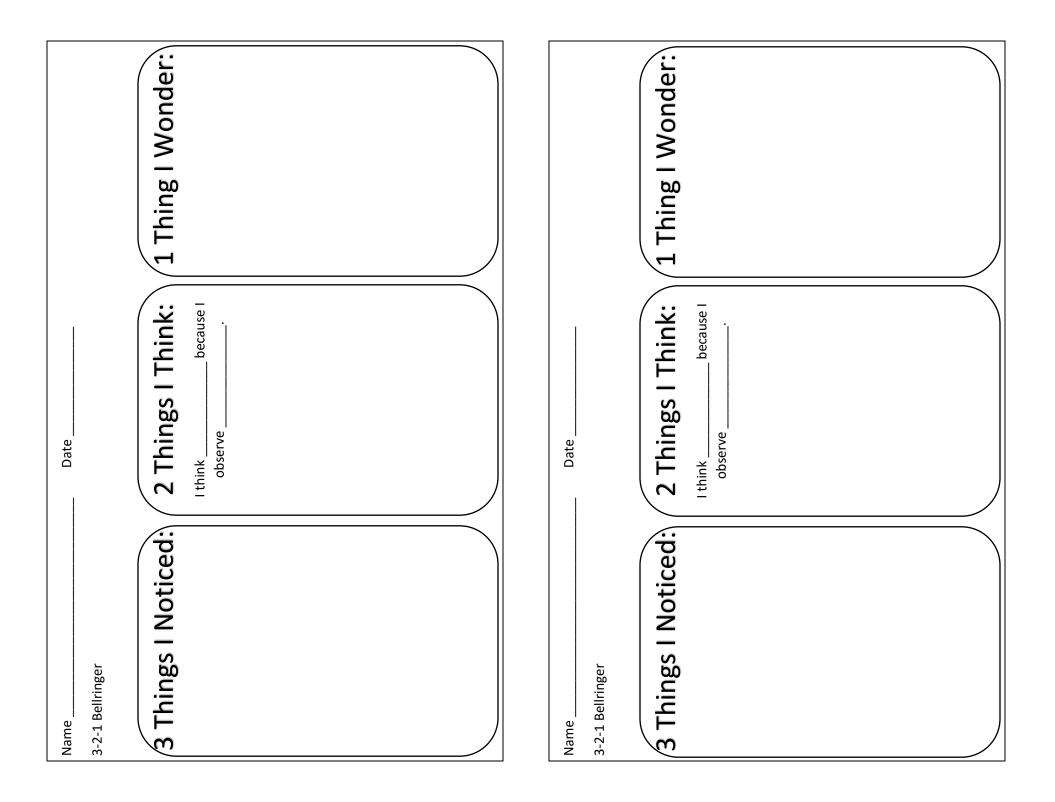
## Terms of Use

Heather Walls' Terms of Use: By purchasing this product, the purchaser receives a limited individual license to reproduce the product for single classroom use only. The license is not intended for use by organizations or multiple uses including, but not limited to school districts, schools, or multiple teachers within the same content area or grade level. This resource should not be shared with colleagues, used by an entire grade level or content area, or by school district without purchasing the proper number of licenses. No part of this publication may be reproduced, distributed, or transmitted without written permission from the author. This includes posting this product on the internet in any form including class, school, or personal websites or shared networks. Doing so violates the Digital Millennium Copyright Act.

You are welcome to pin this product or share pictures of your students using the product if you include a link back to the original product on TPT.

Name	Date	Name	Date		
Biomolecules Bellringer		Biomolecules Bellringer			
For each of the following write C for carbohydrates, L for lipids, P for proteins and N for nucleic acids.		-	For each of the following write C for carbohydrates, L for lipids, P for proteins and N for nucleic acids.		
1Genetic information	n of organisms	1Genetic infor	mation of organisms		
2Made of subunits ca	alled amino acids	2Made of subu	units called amino acids		
3Specialized molecul	les make up the cell membrane	3Specialized m	olecules make up the cell membrane		
4Your body's source	for fast energy	4Your body's s	ource for fast energy		
5Makes up muscles,	hair, and skin	5Makes up mu	iscles, hair, and skin		
6Glucose is the simp	lest sugar	6Glucose is the	e simplest sugar		
7DNA and RNA are e	xamples	7DNA and RNA	A are examples		
8Made of nucleotide	25	8Made of nucl	8Made of nucleotides		
9Made of monosaccl	harides	9Made of monosaccharides			
10Potatoes are an exa	ample	10Potatoes are an example			
11Olive oil is an exam	ple	11Olive oil is an	example		
12Used for long-term	energy storage	12Used for long	-term energy storage		
13Often used for structure or chemical reactions in the body		13Often used for structure or chemical reactions in the body			
14Found in the nucleu	us of your cells	14Found in the	nucleus of your cells		
15Used by the cell as	ID badges and cell-to-cell communication	15Used by the c	cell as ID badges and cell-to-cell communication		

Name	Date	Name		Date
Enzymes Bellringer		Enzymes	Bellringer	
Labeling using the followin complex, active site, substa	g parts: enzyme, product, enzyme-substrate ate	0	using the following pa active site, substate	rts: enzyme, product, enzyme-substrate
	d H <sub>2</sub> O	b b		d H <sub>2</sub> O
This Photo by Unknown Author is licensed under CC	<u>BY-SA-NC</u>	This Photo by U	nknown Author is licensed under <u>CC BY-SA-N</u>	<u>c</u>
L. Which part of this read	tion remains unchanged?	1. Whic	h part of this reaction	remains unchanged?
. Enzymes are known as	biological catalysts. What does a catalyst do?	2. Enzy	mes are known as biol	ogical catalysts. What does a catalyst do?
	ific in the reactions they catalyze. What about	-		the reactions they catalyze. What about
	o specific?			cific? d in?
	that will affect enzyme activity?			will affect enzyme activity?
a	· · ·	a		
a		a k		
a b c . This is sometimes refer		a k c 6. This i	o.  is sometimes referred	



Name Date	]
Photosynthesis Bellringer	
Formula: Circle the reactants and draw a square around the products	
Occurs in the, which contains the pigm The function is to	
What is the purpose of photosynthesis?	
What structure allows for gas exchange in the leaf?	
What structure of the plant absorbs water?	
Which part of the formula above is not actually a reactant, but requir to make the reaction go?	red
A is something that makes a reaction go fas	ter.

Name	Date
Photosynthesis Bellringer	
	nts and draw a square around the products
Occurs in the	_ + +, which contains the pigment The function is to
What is the purpose of ph	otosynthesis?
What structure allows for	gas exchange in the leaf?
What structure of the plan	nt absorbs water?
•	above is not actually a reactant, but required
Α	_ is something that makes a reaction go faster.

Name	Date
Cellular Respiration Bellringer	
	My My
Formula: Circle the reactants and drav	v a square around the products
+	++++
Occurs in the	of all
What is the purpose of cellular respira	
Where in the body does cellular respir	
What structure do mammals have tha	t allow for gas exchange?
Where do you get the 2 reactants:	
•	
•	

Name Date	
Cellular Respiration Bellringer	
	7  } 1 N
Formula: Circle the reactants and draw a square arour	
++++	+
Occurs in the of all	·
What is the purpose of cellular respiration?	
Where in the body does cellular respiration take place	2?
What structure do mammals have that allow for gas e	xchange?
Where do you get the 2 reactants:	
•	
•	

Name Date	Na	me	Date		
Vocabulary Bellringer	Vo	cabulary Bellringer			
Match the following vocabulary words to the correct definiti	on. Ma	Match the following vocabulary words to the correct definition.			
a.photosynthesise.fermentationi.glycolysisb.aerobicf.chloroplyllj.chloroplac.mitochondriag.anaerobick.cellular red.productsh.reactantsI.ATP	t b.	aerobic f. ch mitochondria g. ar	rmentation i. glycolysis nloroplyll j. chloroplast naerobic k. cellular respiration nactants l. ATP		
1 The process of converting the chemical ene	gy in 1.	1 The process of converting the chemical energy in			
glucose into ATP		glucose into ATP			
2 The step in cellular respiration when glucos	is broken 2.	2 The step in cellular respiration when glucose is broken			
into pyruvate		into pyruvate			
3 The organelle in which photosynthesis take	place 3.	3 The organelle in which photosynthesis takes place			
4 The body's form of cellular energy	4.	4 The body's form of cellular energy			
5 The molecules formed during a chemical re	ction 5.	5 The molecules formed during a chemical reaction			
6 Word that literally means "air"	6.	6 Word that literally means "air"			
7 The organelle in which cellular respiration t	kes place 7.	7 The organelle in which cellular respiration takes place			
8The molecules that go into a chemical reaction	on 8.	8The molecules that go into a chemical reaction			
9 The process of converting light energy into chemical		9 The process of converting light energy into chemical			
energy in glucose		energy in glucose			
10 Word that literally means "without air"		10 Word that literally means "without air"			
11 Process that allows cells to continue glycolysis to make		11 Process that allows cells to continue glycolysis to make			
ATP without oxygen		ATP without oxygen			
12 One pigment found in chloroplasts; this one is green		One pigmen	t found in chloroplasts; this one is green		
			. –		

Nan	ne Date		ame	Date	
Pineapple & Gelatin		6	Pineapple & Gelatin		
Watch the video <u>bit.ly/36t33L5</u> .		Ň	Watch the video <u>bit.ly/36t33L5</u> .		
Pineapple contains the enzyme bromelain, which breaks down proteins. Gelatin contains the protein collagen, which is helps it set up to make the jiggly jell-o we all know and kinda love. When the shape of an enzyme changes, the enzyme has been denatured.		t	Pineapple contains the enzyme bromelain, which breaks down proteins. Gelatin contains the protein collagen, which is helps it set up to make the jiggly jell-o we all know and kinda love. When the shape of an enzyme changes, the enzyme has been denatured.		
1.	Explain what happens to the gelatin in each jar with pineapple:		Explain what happens to the gela	atin in each jar with pineapple:	
	a. Fresh		a. Fresh		
	b. Boiled				
	c. Canned				
2.	Why did the fresh pineapple cause this to happen?		Why did the fresh pineapple cau	se this to happen?	
3.	What caused the difference in the gelatin with the fresh vs. boiled		What caused the difference in th	e gelatin with the fresh vs. hoiled	
	gelatin?				
	gendun:				
4.	Amylase is an enzyme that breaks down starch into sugars. Amylase	4	Amylase is an enzyme that break	s down starch into sugars. Amylase	
	can be found in your saliva and some fruits. Would amylase cause		can be found in your saliva and s	ome fruits. Would amylase cause	
	the same thing that bromelain did in the gelatin? Explain.		the same thing that bromelain di	d in the gelatin? Explain.	
5.	Explain how enzymes work	5	Explain how enzymes work.		
			<u> </u>		