Short Performance Assessment: HS-LS1-7

Grade Level: High School Adapted from SNAP¹

Title	Yeast & Sugar					
Designed by		Course(s)	High School			
© O S	This work is licensed under a Creative Commons A	Attribution-Non	Commercial 4.0 International License.			
Performance Expectation	HS-LS1-7 : Use a model to illustrate that cellular respiration is a chemical process whereby the bonds of					
	Clarification Statement: Emphasis is on the conceptual understanding of the inputs and outputs of the process of cellular respiration Assessment Boundary: Assessment should not include identification of the steps or specific processes involved in cellular respiration.					
Science and Engineering Practice	. 3	ate the relatio	nships between systems or between			
Disciplinary Core Ideas	<u>.</u>					

Student Performance

Crosscutting

Concept

1. Components of the model

ongoing energy transfer to the surrounding environment.

between objects and/or fields, or between systems.

2. Relationships

Energy and Matter

3. Connections

• Energy cannot be created or destroyed; it only moves between one place and another place,

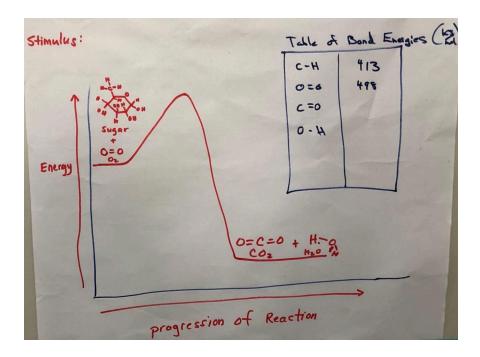
¹ The Short Performance Assessment (SPA) and the Assessment Rubric adapted from the Stanford NGSS Assessment Project http://snapgse.stanford.edu/

Name	
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Phenomena

Yeast is a sugar. Use venier probes to measure ${\rm CO_2}$ and ${\rm O_2}$ levels.

Stimulus



1. Explain how the data in the graph supports the idea that cellular respiration is a process of bond making and bond breaking.

2. Explain the changes in energy that take place.

Assessment Rubric* - Question 1					
	Emerging	Developing	Approaching Proficiency	Excelling	
Description of performance					
Sample student responses					

	Assessment Rubric* - Question 2					
	Emerging	Developing	Approaching Proficiency	Excelling		
Description of performance						
Sample student responses						

Insert additional Assessment Rubrics (if needed) here.