



Name: REDACTED

Date: 2/17/2022

Student Exploration: Dehydration Synthesis

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: carbohydrate, chemical formula, dehydration synthesis, disaccharide, glucose, hydrolysis, monosaccharide, polysaccharide, valence

Prior Knowledge Questions (Do these **BEFORE** using the Gizmo.)

1. If you exercise on a hot day, you need to worry about dehydration. In this context, what do you think dehydration means?

Dehydration is the lack/loss/or removal of water from something/someone

2. Astronauts and backpackers often bring dehydrated food. What do you think dehydrated food is?

Foods that lack water molecules, if I recall correctly it also preserves the food.

Gizmo Warm-up

What do rice, potatoes, and sugar have in common? They are all foods rich in **carbohydrates**. Carbohydrates are an important energy source for your body. The basic building block of most carbohydrate compounds is the molecule **glucose**. Using the Dehydration Synthesis Gizmo, you will learn about the structure of a glucose molecule and how glucose molecules can be joined together to make larger carbohydrate molecules.

To begin, select the **ORIENT GLUCOSE** tab.

1. Look at the **chemical formula** for glucose. How many carbon (C), hydrogen (H), and oxygen (O) atoms are found in a molecule of glucose?

C

6

H

12

O

6

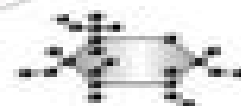
2. Turn on **Show chemical structure**. Each black sphere represents a carbon, hydrogen, or oxygen atom. The lines connecting the spheres represent chemical bonds.

- A. How many black spheres are in the diagram?

24 Black spheres

- B. How does this relate to the number of carbon, hydrogen, and oxygen atoms in the chemical formula for glucose?

The # of spheres is the total number of C, H, and O atoms added up together (12+6+6 = 24)



Student Exploration Limiting Reactants Answer Sheet

Marco Cascella

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Student Exploration Limiting Reactants Answer Sheet:

Decoding **Student Exploration Limiting Reactants Answer Sheet**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Student Exploration Limiting Reactants Answer Sheet**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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