

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Dehydration Synthesis

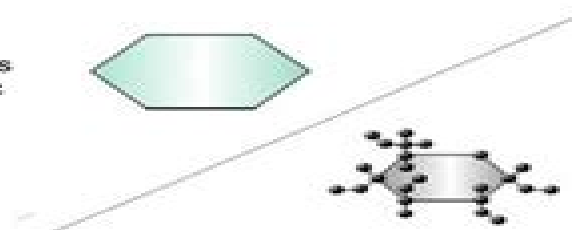
**Vocabulary:** carbohydrate, chemical formula, dehydration synthesis, disaccharide, glucose, hydrolysis, monosaccharide, polysaccharide, valence

**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? An excessive loss of water from the body
2. Astronauts and backpackers often bring dehydrated food. What do you think dehydrated food is? Food that has had the majority of water removed from 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 **CREATE 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
  - B. How does this relate to the number of carbon, hydrogen, and oxygen atoms in the chemical formula for glucose? 24 is the total number of atoms in glucose

# Dehydration Synthesis Gizmo Answers

**S Marginson**

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

## **Dehydration Synthesis Gizmo Answers:**

## Dehydration Synthesis Gizmo Answers Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Dehydration Synthesis Gizmo Answers**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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