



Gizmos

Name: _____

Date: _____

Student Exploration: Dehydration Synthesis

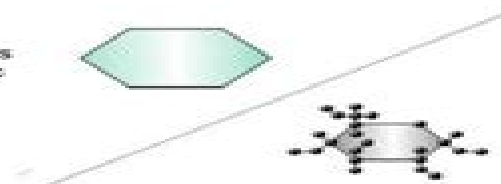
Vocabulary: carbohydrate, chemical formula, dehydration synthesis, disaccharide, glucose, hydrolysis, monosaccharide, polysaccharide, valence

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

- 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
- 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.

- 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
- Turn on **Show chemical structure**. Each black sphere represents a carbon, hydrogen, or oxygen atom. The lines connecting the spheres represent chemical bonds.
 - How many black spheres are in the diagram? 24
 - 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



Explore Learning Gizmo Answer Key Dehydration

Anthony S. Fauci



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Table of Contents Explore Learning Gizmo Answer Key Dehydration

1. Understanding the eBook Explore Learning Gizmo Answer Key Dehydration
 - The Rise of Digital Reading Explore Learning Gizmo Answer Key Dehydration
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answer Key Dehydration
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Explore Learning Gizmo Answer Key Dehydration
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Gizmo Answer Key Dehydration

- Personalized Recommendations
- Explore Learning Gizmo Answer Key Dehydration User Reviews and Ratings
- Explore Learning Gizmo Answer Key Dehydration and Bestseller Lists
- 5. Accessing Explore Learning Gizmo Answer Key Dehydration Free and Paid eBooks
 - Explore Learning Gizmo Answer Key Dehydration Public Domain eBooks
 - Explore Learning Gizmo Answer Key Dehydration eBook Subscription Services
 - Explore Learning Gizmo Answer Key Dehydration Budget-Friendly Options
- 6. Navigating Explore Learning Gizmo Answer Key Dehydration eBook Formats
 - ePub, PDF, MOBI, and More
 - Explore Learning Gizmo Answer Key Dehydration Compatibility with Devices
 - Explore Learning Gizmo Answer Key Dehydration Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Explore Learning Gizmo Answer Key Dehydration
 - Highlighting and Note-Taking Explore Learning Gizmo Answer Key Dehydration
 - Interactive Elements Explore Learning Gizmo Answer Key Dehydration
- 8. Staying Engaged with Explore Learning Gizmo Answer Key Dehydration
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Explore Learning Gizmo Answer Key Dehydration
- 9. Balancing eBooks and Physical Books Explore Learning Gizmo Answer Key Dehydration
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Explore Learning Gizmo Answer Key Dehydration
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Explore Learning Gizmo Answer Key Dehydration
 - Setting Reading Goals Explore Learning Gizmo Answer Key Dehydration
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Explore Learning Gizmo Answer Key Dehydration

- Fact-Checking eBook Content of Explore Learning Gizmo Answer Key Dehydration
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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