



Gizmos

Name: _____

Date: _____

Student Exploration: Dehydration Synthesis

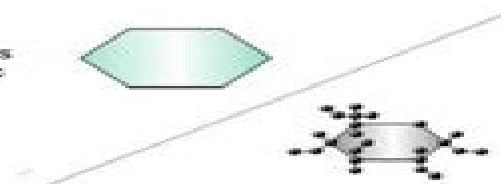
Vocabulary: carbohydrate, chemical formula, dehydration synthesis, disaccharide, glucose, hydrolysis, monosaccharide, polysaccharide, valence

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

O García



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