



Name: _____

Date: _____

Student Exploration: Plants and Snails

Vocabulary: aerobic respiration, bromothymol blue (BTB), carbon dioxide-oxygen cycle, indicator, interdependence, photosynthesis

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

1. What important gas do we take in when we breathe?

Oxygen

2. Why don't we run out of the important gases that we need to stay alive?

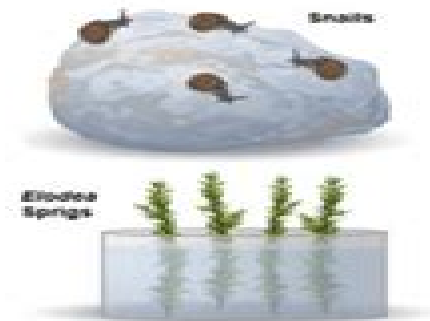
Because it's always in the air everywhere

Gizmo Warm-up

In the *Plants and Snails* Gizmo, each of the test tubes contains water and a small amount of **bromothymol blue** (BTB). BTB is a chemical **indicator**. An indicator changes color when the chemicals in the water change.

1. With the lights set to **on**, drag a snail into one test tube and a plant into another. Press **Play** (▶). After 24 hours, what is the color of each tube?

a & c turned yellow
b & d turned blue



2. Select **Show oxygen and CO₂ values**. Place the **O₂/CO₂ probe** in each tube. The probe shows the levels of two gases, oxygen (O₂) and carbon dioxide (CO₂), in the tubes. We call these amounts the *gas levels*.

- A. When the water turns blue, which gas is most common? O₂
- B. When the water turns yellow, which gas is most common? CO₂
- C. What does it tell you when the water is green? that there is an equal amount of O₂ and CO₂

Plants And Snails Gizmo Answer Key

Christian Ernst Stahl

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.

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Plants and Snails Christian Ernst Stahl,18??

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