

Name: _____ Date: _____

Student Exploration: Circuit Builder

Vocabulary: circuit, closed circuit, conductor, current, electron, fuse, insulator, open circuit, parallel circuit, series circuit, short circuit

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

1. What do a light bulb, a toaster, a radio, and a computer all have in common? _____

2. Suppose you connect a battery to a small light bulb with a single wire. What do you think will happen? Explain your answer.

Gizmo Warm-up: Build a circuit

1. Using the **Standard components** in the upper left of the Gizmo™, try to get a light bulb to light up. You can drag as many bulbs, wires, batteries, switches and fuses as you like onto the circuit board.



A **circuit** is a path containing easily moveable charges. When the light bulb lights up, negatively-charged particles called **electrons** are flowing through the wire and bulb. This flow is called **current**.

2. Now try to light the bulb with the smallest number of components.

Make a sketch of your simple circuit in this space:



3. Based on what you have seen, what must be true for a circuit to light a bulb? _____

<p>Activity A: Closing a circuit</p>	<p>Get the Gizmo ready:</p> <ul style="list-style-type: none"> • Click Clear. • Turn on Show current and select Electron flow. • Set up components as shown to the right. 	
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Introduction: You should have just built an **open circuit** (shown above). The gap on the left prevents the flow of charges. There are no gaps in a **closed circuit**, so charges can flow.

Question: What materials will close a circuit?

1. **Predict:** **Conductors** are materials with easily movable charges, allowing current to occur. **Insulators** do not have easily movable charges, so current is not produced. Look at the nine **Materials** at lower left. Which do you think are conductors? Which are insulators?

A. Predicted conductors: _____

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Explore Learning Gizmo Student Exploration Circuit Builder Answer Key

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Explore Learning Gizmo Student Exploration

Students can explore this law in the Archimedes' Principle Gizmo. In the Gizmo, students can vary the dimensions and mass of a "boat," see how this affects the buoyant forces on the boat, and determine whether the boat floats or sinks. Hopefully, this will result in some "Eureka" moments for your students!

ExploreLearning Gizmos: Math & Science Simulations

See how muscles, bones, and connective tissue work together to allow movement. Observe how muscle contraction arises from the interactions of thin and thick filaments in muscle cells. Using what you have learned, construct an arm that can lift a weight or throw a ball. Connective tissue, muscle composition, bone length, and tendon insertion point can all be manipulated to create an arm to lift ...

Muscles and Bones Gizmo : ExploreLearning

Google Doc of Student Exploration Sheet . In the file, click on the link to make a copy of the Google Doc of the Student Exploration Sheet. Best For: 3rd Grade, 4th Grade, 5th Grade Science . Gizmo User from Virginia

Solar System Explorer Gizmo : Lesson Info : ExploreLearning

Once you have selected a Gizmo or two you are considering using for your lesson plan, open the Student Exploration Sheet and work through the Gizmo Warm Up to learn about the features, functions and content found within the Gizmo. If you like the Gizmo for the lesson you are planning on delivering take a deeper look at the lesson materials and activities in the Student Exploration Sheets to ...

Planning a Gizmo Lesson From Start to Finish ...

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Sticky Molecules Gizmo : ExploreLearning

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Solar System Explorer Gizmo Worksheets - Learny Kids

Phase Changes Gizmo : ExploreLearning Explore the relationship between molecular motion, temperature, and phase changes. Compare the molecular structure of solids, liquids, and gases. Graph temperature changes as ice is melted and water is boiled.

Phase Changes Gizmo : ExploreLearning

Cell Division Gizmo : ExploreLearning Begin with a single cell and watch as mitosis and cell division occurs. The cells will go through the steps of interphase, prophase, metaphase, anaphase, telophase, and cytokinesis.

Cell Division Gizmo : ExploreLearning

Study photosynthesis in a variety of conditions. Oxygen production is used to measure the rate of photosynthesis. Light intensity, carbon dioxide levels, temperature, and wavelength of light can all be varied. Determine which conditions are ideal for photosynthesis, and understand how limiting factors affect oxygen production.

Photosynthesis Lab Gizmo : ExploreLearning

See how muscles, bones, and connective tissue work together to allow movement. Observe how muscle contraction arises from the interactions of thin and thick filaments in muscle cells. Using what you have learned, construct an arm that can lift a weight or throw a ball. Connective tissue, muscle composition, bone length, and tendon insertion point can all be manipulated to create an arm to lift ...

Muscles and Bones Gizmo : Lesson Info : ExploreLearning

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Gizmo comes with an answer key. Each lesson includes a Student Exploration Sheet, an Exploration Sheet Answer Key, a Teacher Guide, a Vocabulary Sheet and Assessment Questions. The Assessment Questions do not come with an answer key. Gizmos is an online learning tool created and managed by ExploreLearning.com.

[New Version] Answers To Identifying Nutrients Gizmo

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Student Exploration: Trebuchet (ANSWER KEY) Download. Student Exploration: Trebuchet Vocabulary: air resistance, counterweight, counterweight trebuchet, efficiency, gravitational potential energy ...

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