

Name: _____

Date: _____

Student Exploration: Circuits

Vocabulary: ammeter, circuit, current, electron, ohmmeter, Ohm's law, parallel circuit, resistance, resistor, series circuit, voltage

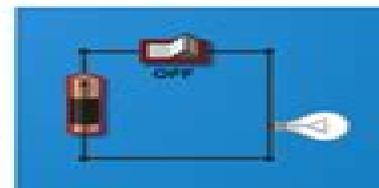
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Strings of holiday lights can be designed in one of two ways. In some strings of lights, each light is connected to the others along a single wire (in series). In others, each light is attached to its own wire (in parallel).

- Suppose a single light bulb burns out. How do you think this will affect lights that are strung along a single wire? Since all light bulbs are connected by one wire, the lights would not work properly.
- How will a single burned-out bulb affect the string of lights if each light is attached to its own wire? Since each light has its own wire, the other lights will work fine.

Gizmo Warm-up

The Circuits Gizmo shows a circuit board and a variety of components. Create a **circuit** with a battery, a light switch, a wire, and a light bulb, as shown. (Click the light switch to turn it to **OFF**.)



- Click the light switch to turn it to **ON**. What happens? The light bulb turns on due to the flow of electricity passing through.
- Turn on **Show current** and select **Electron flow**. The moving dots represent a **current of electrons**—tiny, negatively charged particles—moving through the wire. **Voltage** is a measure of how much more potential energy an electron at one end of a battery has than an electron at the other end of the battery.
 - How does changing the battery's voltage affect the current? Changing the voltage of the battery will have a direct impact on the current.
 - How does changing the battery's voltage affect the brightness of the light? Changing the battery's voltage will have a direct impact on the light bulb's brightness.
- Remove the wire. What happens? Removing the wire affects the current and turns off the light.

Explore Learning Gizmo Answers For Circuits

F. A. Benson



Explore Learning Gizmo Answers For Circuits:

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Wisconsin. Educational Communications Board,1971 **Connect It!** Elsie Olson,2017-12-15 Kids will use bright and squishy conductive dough to power mini UFO lights a diary alarm and more Colorful step by step photos bring each project to life **Electric Circuit Problems with Solutions** F. A. Benson,1975-04-24 Electrical engineering and electronic engineering students have frequently to resolve and simplify quite complex circuits in order to understand them or to obtain numerical results and a sound knowledge of basic circuit theory is therefore essential The author is very much in favour of tutorials and the solving of problems as a method of education Experience shows that many engineering students encounter difficulties when they first apply their theoretical knowledge to practical problems Over a period of about twenty years the author has collected a large number of problems on electric circuits while giving lectures to students attending the first two post intermediate years of University engineering courses The purpose of this book is to present these problems a total of 365 together with many solutions some problems with answers given at the end of each Chapter are left as student exercises in the hope that they will prove of value to other teachers and students Solutions are separated from the problems so that they will not be seen by accident The answer is given at the end of each problem however for convenience Parts of the book are based on the author's previous work *Electrical Engineering Problems with Solutions* which was published in 1954

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web fig 4 block diagram of mobile operated pick and place robot the main part of the project is mechanical arrangement of robot arm by using 3 motors we can develop the robot arm with help of 4 or 5 motors according to our design in this project we used only 3 motors for controlling robot arm the below diagram shows the robot arm arrangement

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web design analysis of a remote controlled pick and place robotic vehicle 59 fig 1 block diagram of mode of operation 3 1 4 elbow this is the joint between links b and c and it has one degree of freedom actuated by a rc servo motor it can rotate to about 180 by design by link a the motion about the elbow is actuated by a set of gear brains

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web block diagram showing receiver of a pick n place robot the system consists of two motors for providing motion to the whole robot and two other motors to provide the arm motion the end effector or the gripper needs to be controlled to apply proper pressure on the object to handle it effectly to give it a soft grip

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web based on the user commands the robot moves and pick and place the objects the robotic arm used here is similar to a human arm which is programmed to perform the pick and place functions the remainder of this paper is organized as follows the section 2 provides information about the existing works section 3 gives details of the proposed

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web pick and place robot module block diagram 14 3 3 1 robotic arm design the robotic arm with gripper termination has five degrees of freedom with a rotating base that rests on the upper region of the vehicle as depicted in figure 6