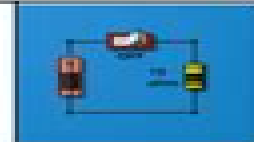


Activity A: Ohm's law

Get the Gizmo ready:

- Click **Clear**. Create the circuit shown at right.
- Click on the battery. Set the **Selected battery voltage** to 10 volts.



Introduction: **Resistors** are devices that slow the flow of current in a wire. The **resistance** of the circuit to current is measured in units called ohms.

Question: What is the relationship between voltage, current, and resistance? What do you think happens to the current when voltage decreases?

1. **Experiment:** What do you think happens to the resistance in a circuit with different resistors in the wire? **Write your answer.**

2. **Explore:** Turn the light switch **On** to start the flow of current. In **Settings**, set the **Selected resistor** to 10 ohms. Drag the **Resistor** to the circuit, and observe what happens.

- a. Is the current the same throughout the circuit? **Write your answer.**
- b. What is the current in the wire with the 10-ohm resistor? **Write your answer.**

3. **Experiment:** Measure the current in the circuit using the resistor and voltage combinations given below.

Voltage	Resistance	Current
10 volts	10 ohms	
10 volts	20 ohms	
10 volts	30 ohms	
10 volts	40 ohms	

Voltage	Resistance	Current
20 volts	10 ohms	
20 volts	20 ohms	
20 volts	30 ohms	
20 volts	40 ohms	

4. **Explore:** What is the mathematical relationship between voltage (V), resistance (R), and current (I)? Complete your answer as an equation.

Equation: _____
This equation is known as **Ohm's Law**.

5. **Explore:** Use **Settings** to find the resistance of the light bulb in the circuit. What is it? **Write your answer below.**

All Gizmo Answers Key Activity

B Lingard

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.

All Gizmo Answers Key Activity:

Heinemann Galaxie Readers: Level 3 Teachers Guide Carter,Bolger,2004-04 **Language in Use**
Upper-intermediate Teacher's Book Adrian Doff,Christopher Jones,1997-04-24 A popular and highly acclaimed four level course which both interests and stretches learners **Speech Activities** ,1950 *Lunar Commerce* Derek Webber,2024-05-13 This book explores the advent of lunar commerce including the potential scale and timing of the initiative the associated revenue potential and the potential risks and uncertainties Specifically it discusses the reason for the increased interest in lunar commerce which lunar markets will be part of the initiative and how much of it will be commercial or dependent on government funding It provides an easy introduction to the content of the Lunar Commerce Portfolio which was recently issued under the author s leadership by the Working Group on Lunar Commerce and Economics of the Moon Village Association which has Observer Status at the United Nations in Vienna *Boys' Life* ,1960-02 Boys Life is the official youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting *The Listener* ,1985-07 *America Toons In* David Perlmutter,2014-03-13 Animation has been part of television since the start of the medium but it has rarely received unbiased recognition from media scholars More often it has been ridiculed for supposedly poor technical quality accused of trafficking in violence aimed at children and neglected for indulging in vulgar behavior These accusations are often made categorically out of prejudice or ignorance with little attempt to understand the importance of each program on its own terms This book takes a serious look at the whole genre of television animation from the early themes and practices through the evolution of the art to the present day Examining the productions of individual studios and producers the author establishes a means of understanding their work in new ways at the same time discussing the ways in which the genre has often been unfairly marginalized by critics and how especially in recent years producers have both challenged and embraced this marginality as a vital part of their work By taking seriously something often thought to be frivolous the book provides a framework for understanding the persistent presence of television animation in the American media and how surprisingly influential it has been **Language in Use**
Upper-intermediate Classroom Book Adrian Doff,Christopher Jones,1997-03-13 A popular and highly acclaimed four level course which both interests and stretches learners **The Complete Sourcebook on Children's Software** Children's Software Review,2001-03 5000 critical reviews of CDs videogames smart toys for ages 1 to 16 **The Kovalenko Secret** Philip L. Rettew,2023-03-24 About the Book Colonel Viktor A Kovalenko a widowed honorable Russian Intelligence officer and new commander of the Chelyabinsk military installation has discovered that a nuclear bomb is missing from the base storage vault Viktor sets out on a complex and draining clandestine journey to an FBI safe house in Brooklyn New York where he discovers that his beautiful daughter Karina rejected by the Bolshoi but now dancing for the New York Ballet Company has disappeared Inspired by Philip L Rettew s experience seeing the 9 11 attacks in Manhattan in real time The

Kovalenko Secret is a compelling and richly detailed story demonstrating the nature of current and historical differences among cultures nations politics and religions as an international cast of characters reveals their versions of reality during the most devastating terrorist attack in all of human history About the Author Philip L Rettew after a twenty five year career as a technical market analyst working in southern Manhattan is now retired and living in South Burlington Vermont He enjoys playing bridge photography cycling road trips and improvising music on his baby grand Steinway piano Rettew is a 1967 graduate of Yale College where he majored in philosophy and psychology and earned a master s degree from Temple University in psychology after a four year tour of duty in the United States Army Security Agency

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