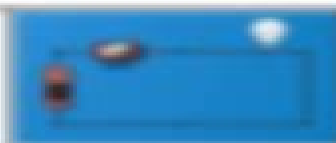


Activity B:
Series circuits

Get the Game ready

- Click **Clear**.
- Create a circuit as shown.
- Click the battery to select it. Set the **Selected battery voltage** to 10 volts.



Question: In a **SERIES CIRCUIT**, there is only one path for charge to flow. What are the properties of series circuits?

1. **Observe:** Turn the light switch **ON** and observe the light bulb. Then start replacing the wire segments with new light bulbs.

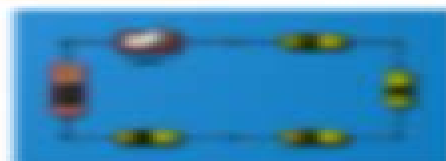
A. How does each new light bulb affect the others? **Each new light bulb will dim others.**

B. Use the **Ammeter** to measure the current in various parts of the circuit. Is the current the same throughout, or does it change? **Yes, current is same throughout.**

2. **Formulate:** How do you think the total resistance of a series circuit is calculated?

The hypothesis can be formed as total resistance will be sum of all resistances.

3. **Experiment:** Create a series circuit with a 10-volt battery and four 10-ohm resistors, as shown. Measure the current.



A. Based on the voltage and current, what is the resistance of the circuit?

(Hint: Use Ohm's law.) **40ohms**

B. **Simulate** measure resistance. Remove the battery and attach the terminals of the **Ohmmeter** (**Ω**) to the ends of the circuit, where the battery used to be attached.

What is the resistance? **40ohms**

4. **State a rule:** How do you calculate the total resistance of a series circuit?

The rule can be formed as the total resistance is sum of all resistances. R_{total}

Test your rule using the Game. If necessary, modify your rule.

5. **Extend your thinking:** Replace the battery. Turn on **Show current**, and remove one resistor. Why would it be a problem if your household appliances were connected in a series circuit?

If my household appliances were connected in a series circuit it will be a problem as if one appliance goes off the all appliances will go off.

Answer Key To The Circuit Builder Gizmo

VM Jensen



Answer Key To The Circuit Builder Gizmo:

Sif Physics Ol Tb Wan Yong Loo,2007 **Dissertation Abstracts International** ,2001 **Surface-mount Technology for PC Board Design** James K. Hollomon,1989 **Ulrich's International Periodicals Directory** ,1998
Walt Disney Imagineering The Imagineers,Imagineers (Group),1998-10-07 Here is an explanation in colorful detail of the making of the magic of Walt Disney World Disneyland Disneyland Paris and Tokyo Disneyland Full color photos
Microtimes ,1999-06 *MacTech Magazine* ,1993 *The British National Bibliography* Arthur James Wells,2003
The Criminal Justice Periodical Index ,1990

The Top Books of the Year Answer Key To The Circuit Builder Gizmo The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Answer Key To The Circuit Builder Gizmo : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Answer Key To The Circuit Builder Gizmo : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://legacy.tortoisemedia.com/data/publication/index.jsp/Acts%20Chapter%201.pdf>

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