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Circuit Diagrams Worksheet

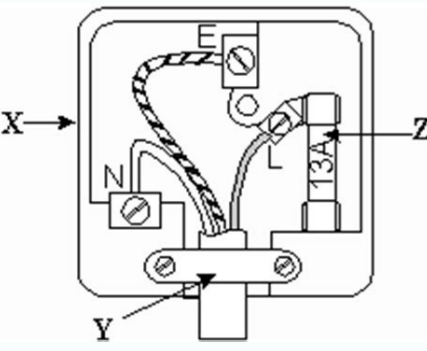
Name \_\_\_\_\_ Date \_\_\_\_\_

### Circuit Diagrams

Use the circuit diagram symbols below to help answer the questions.

1. Draw a circuit diagram below with the following components: battery, wire, buzzer, bulb.

9



Electric Circuits Name: \_\_\_\_\_

#### Electric Potential Difference

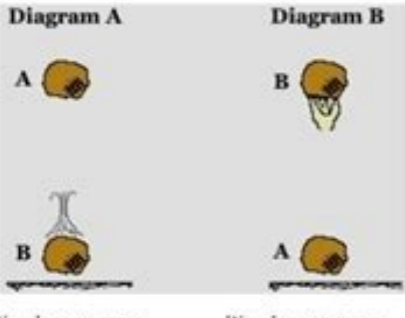
Read from Lesson 1 of the Current Electricity chapter at The Physics Classroom  
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<http://www.physicsclassroom.com/Class/circuits/l1b.html>  
<http://www.physicsclassroom.com/Class/circuits/l1c.html>

MOP Connection: Electric Circuits: sublevels 2 and parts of 3

Review:  
 1. Electric field is defined as the area about the space surrounding a charged object which exerts an electrical influence upon other charged objects in that space. The direction of the electric field vector is defined as the direction which a positive test charge would be accelerated. Potential energy is the energy stored in an object due to the position of that object.

#### A Gravitational Analogy

2. Two diagrams are shown at the right.  
 In diagram A, a mass is held at an elevated position. When let go of, the mass falls from point A to point B.  
 In diagram B, the mass is originally at point A and a person moves it back up to point B.

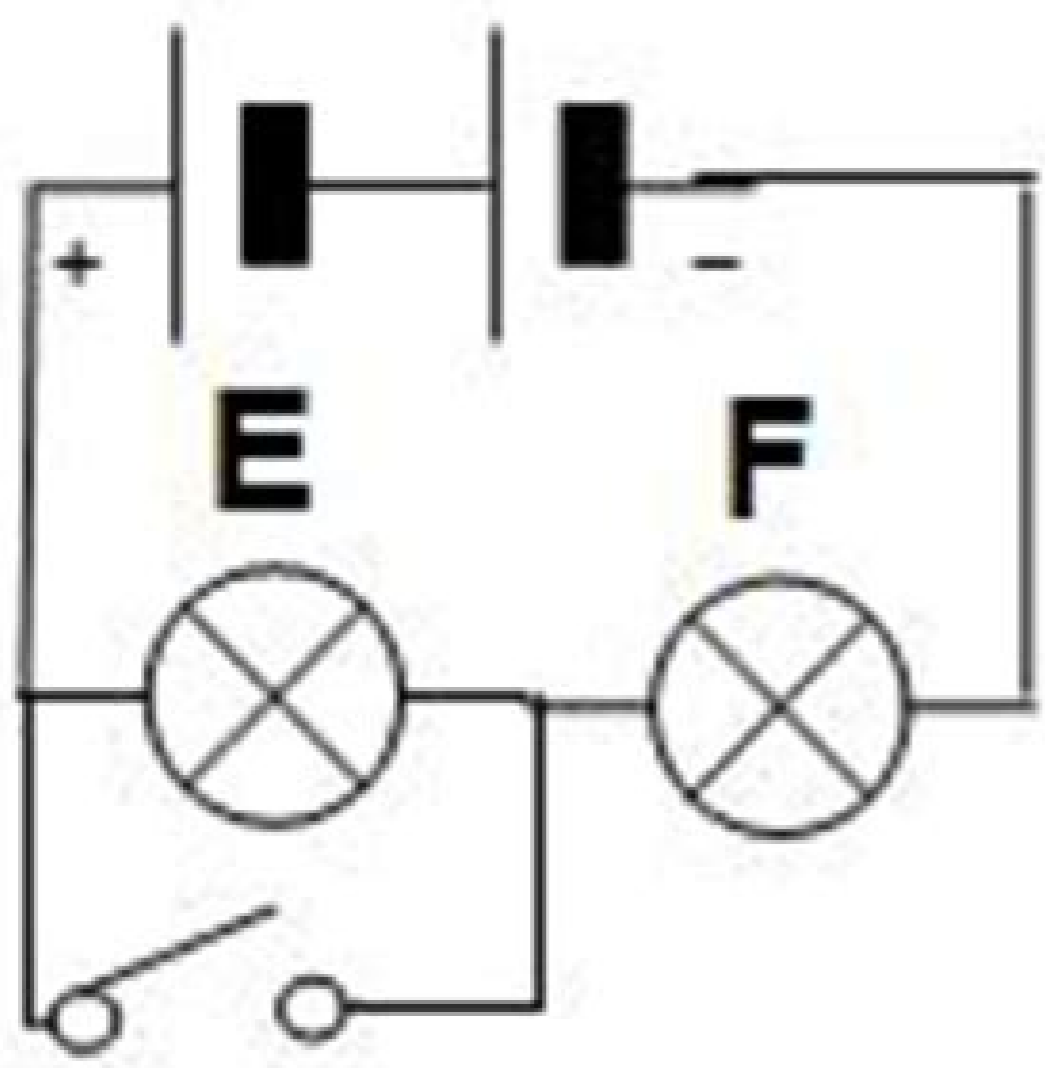
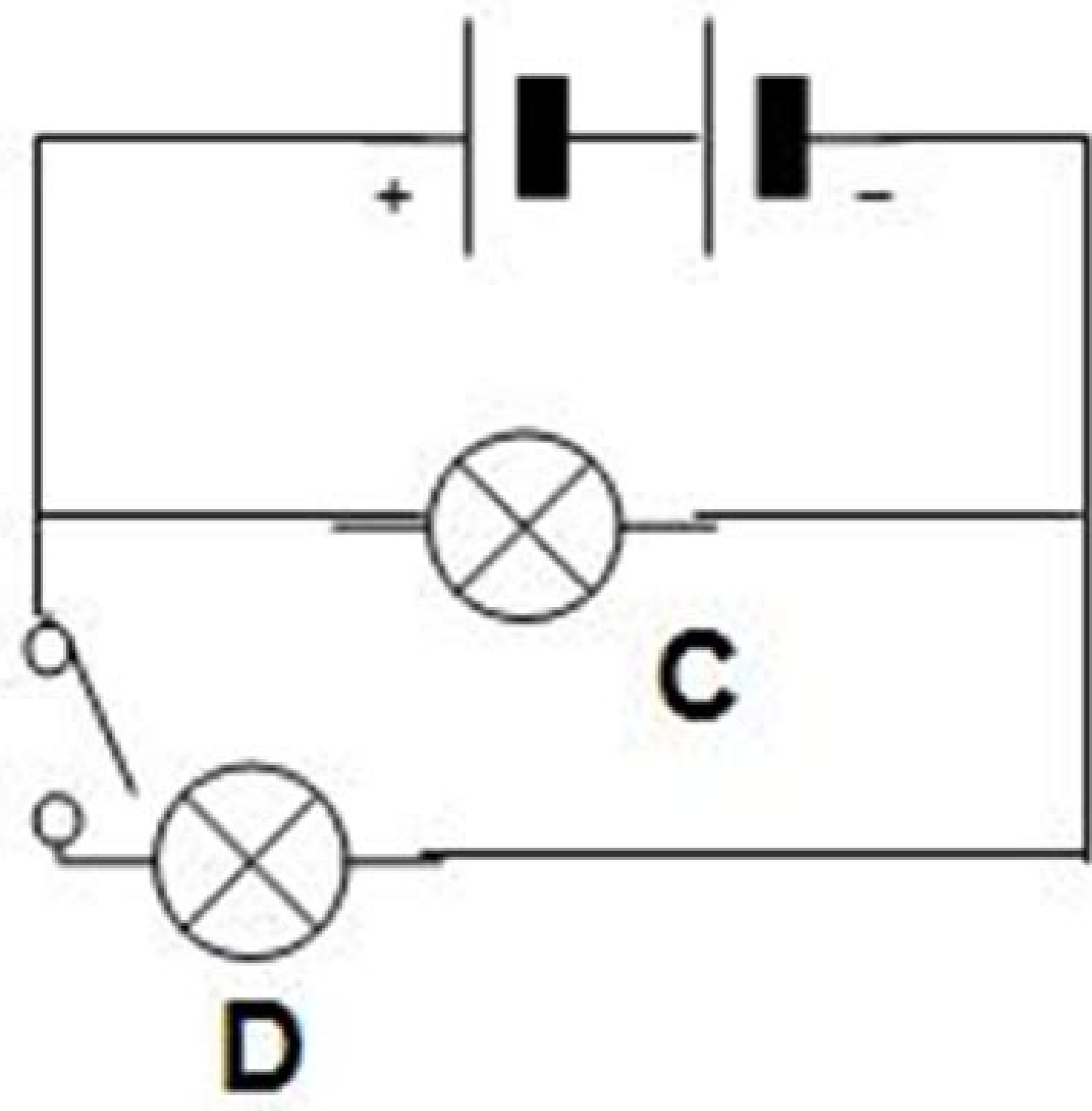
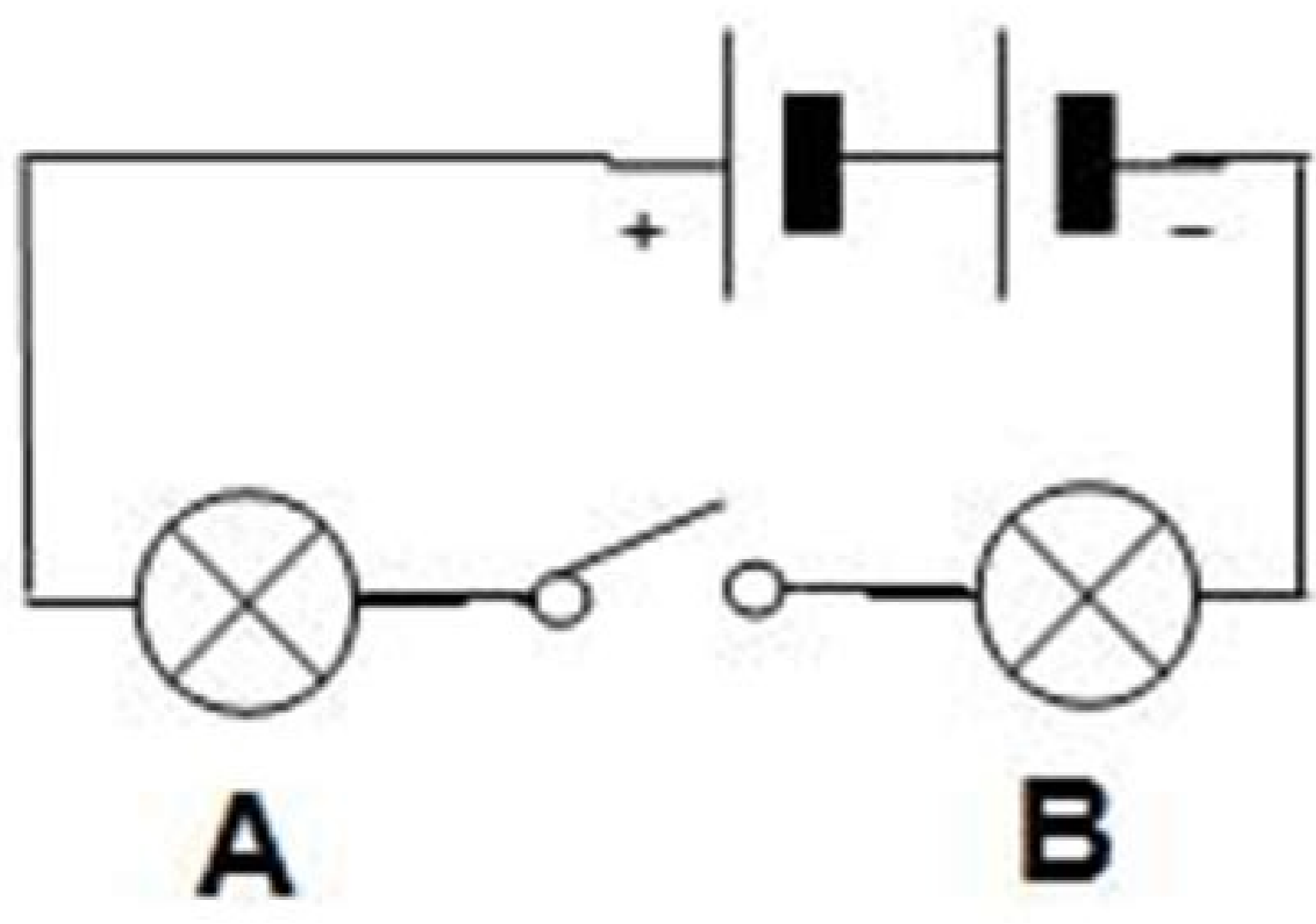


For each diagram, indicate if work is done by a non-conservative force in moving the object from its initial position (point A) to its position at point B. Finally, indicate the position of greatest gravitational potential energy. Circle the answers in the space below the diagrams.

Work done on mass: Yes or No Highest PE: A or B

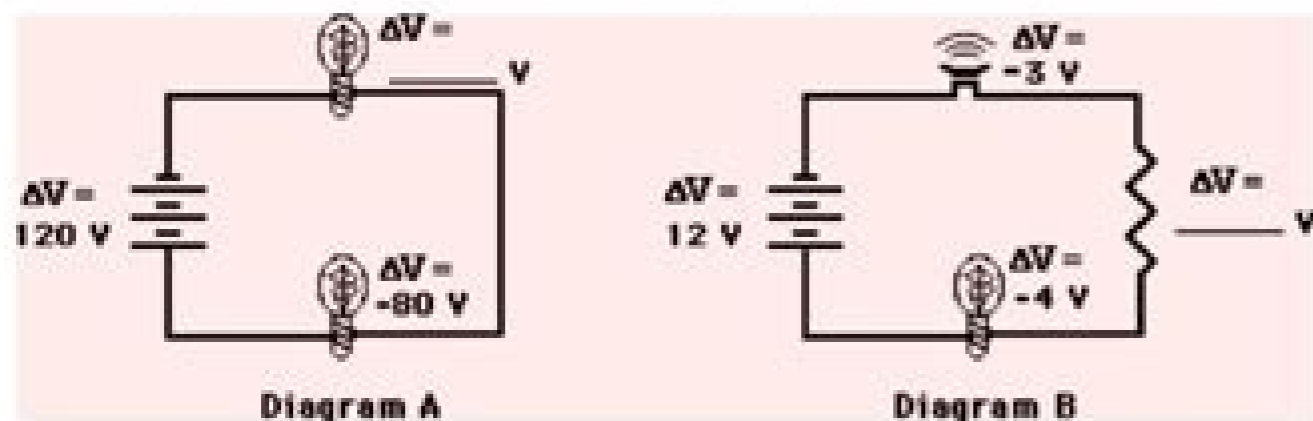
3. The following diagrams show an electric field and two points - labeled A and B - located within the electric field. A positive test charge is shown at point A. For each diagram, indicate whether work must be done upon the charge to move it from point A to point B. Finally, indicate the point (A or B) with the greatest electric potential energy and the greatest electric potential (PE/charge).

<p>Work done on test charge? Yes or No          Potential energy is greatest at: A B          Electric potential is greatest at: A B</p>	<p>Work done on test charge? Yes or No          Potential energy is greatest at: A B          Electric potential is greatest at: A B</p>
<p>Work done on test charge? Yes or No          Potential energy is greatest at: A B          Electric potential is greatest at: A B</p>	<p>Work done on test charge? Yes or No          Potential energy is greatest at: A B          Electric potential is greatest at: A B</p>

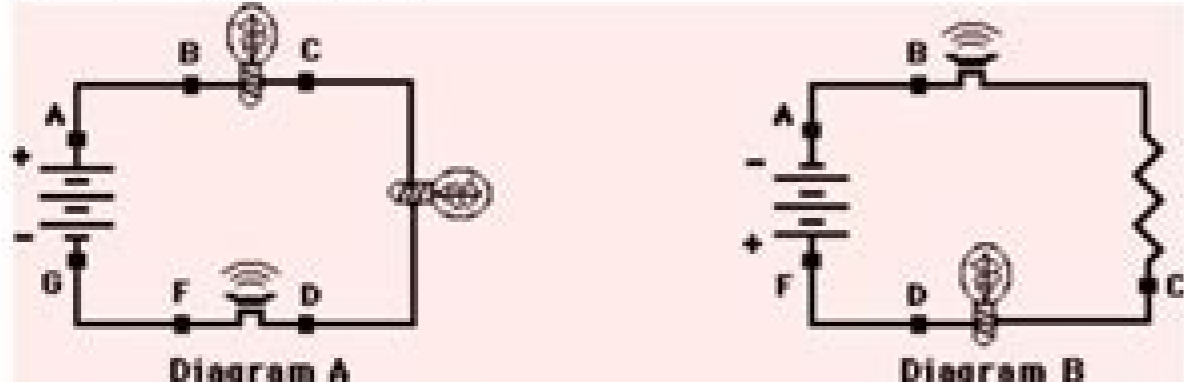


Electric Circuits

4. The following diagrams represent circuits consisting of two electrical devices connected in series. For each diagram, fill in the blanks to show the voltage drop across the designated device.



5. Consider the following two diagrams of series circuits. For each diagram, use arrows to indicate the direction of the conventional current. Then, make comparisons of the voltage and the current at the designated points for each diagram.



- Diagram A
- $V_A$  \_\_\_\_\_  $V_G$   
(>, <, or =)
- $V_B$  \_\_\_\_\_  $V_C$   
(>, <, or =)
- $V_E$  \_\_\_\_\_  $V_F$   
(>, <, or =)
- $I_A$  \_\_\_\_\_  $I_G$   
(>, <, or =)
- Diagram B
- $V_A$  \_\_\_\_\_  $V_F$   
(>, <, or =)
- $V_B$  \_\_\_\_\_  $V_C$   
(>, <, or =)
- $V_D$  \_\_\_\_\_  $V_E$   
(>, <, or =)
- $I_A$  \_\_\_\_\_  $I_F$   
(>, <, or =)

5. Express your understanding of equivalent resistance by filling in the blanks.
- Having two 4-Ω resistors in series is equivalent to having one \_\_\_\_\_-Ω resistor.
- Having three 4-Ω resistors in series is equivalent to having one \_\_\_\_\_-Ω resistor.
- Having four 4-Ω resistors in series is equivalent to having one \_\_\_\_\_-Ω resistor.

6. TRUE or FALSE:

Three light bulbs are connected in series. The filament of one of the light bulbs burns out. The remaining two light bulbs will still be lit; yet, their brightness will be noticeably less.

Thank you for your participation! Determine the total voltage electric potential for each of the following circuits below. Draw the schematic diagram for the circuit to be analyzed. Drawing Circuits For Kids Physics Lessons For Kids Primary Science Some of the worksheets displayed are simple circuits work electricity unit circuit a circuit b draw the following circuits as described if the circuits work r circuits work basic circuits name work circuits ohms law. Drawing circuits worksheet. Selection file type icon file name description size. If the circuit is complete use arrows to show the movement of electrons around the circuit be sure to draw them in the correct direction draw a circuit that has a cell an open switch and one light bulb connected in series. Worksheets these worksheets are a free and fun way to test your electrical engineering knowledge. Series and parallel circuit calculationspdf view download. A worksheet where pupils read off and draw circuit diagrams. Weve even got some great math worksheets to hone your skills. As an extension the children could also be required to list the components used in each circuit. Check the accuracy of the circuits construction following each wire to each connection point and verifying these elements one by one on the diagram. The children are to be given pictures of the 8 circuits from which they will have to transfer these into circuit diagrams. Determine the equivalent total resistance for each of the following circuits below. The circuit has a battery a bulb and a switch which are all connected with electric wires. This is a circuit diagram. Drawing circuits in the space provided draw your own circuit using symbols from the previous worksheet. Check your proficiency with everything from basic electricity to digital circuits. Once you find your worksheet click on pop out icon or print icon to worksheet to print or download. This is a simple and quick way to represent an electric circuit. The later circuits are more challenging and include parallel circuits. A few circuits for you to practice drawing. Remember to label your symbols. Carefully build this circuit on a breadboard or other convenient medium. Enclosed here is a brief description and a circuit diagram to illustrate each type of circuit. This clearly laid out electrical circuit chart for grade 4 and grade 5 consists of open closed series and parallel circuits. Fill out the table for the circuit diagramed at the right. Read circuit diagrams in order to determine how ohms law can be applied to find i v and r. Drawing circuits draw the following circuits as described below. Editable Drawing Circuit Symbols Worksheet Teacher Made Circuit Diagrams Teaching Resources Bbc Schools Science Clips Circuits And Conductors Worksheet Electric Circuits Worksheets Bundle Science Electricity Circuit Diagram Worksheet Teaching Resources Electric Circuits Worksheet Teacher Made Drawing Circuits Practice Series Parallel Circuits Circuit Drawing Circuits Practice By Physics With Dante And Lucio Tpt Mrohring All About Circuits Worksheet Education Com Circuit Drawing Practice Worksheet By The Science Fair Tpt Parallel Dc Circuits Practice Worksheet With Answers Worksheet 5th Grade Science Worksheets Circuit Diagrams Greatschools Members Only Science Worksheets Circuits Science 4th Grade Science Parallel Circuits Worksheet Ks2 Science Teacher Made Drawing Circuits Teaching Ideas Resources For Ks3 Electricity Unit Teaching Resources Https Www Swlauriersb Qc Ca Schools Mccaig Teachers Dstrina Bookletelectricitystudent Pdf 3rd Grade 4th Grade Science Worksheets Draw The Circuit 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