

## Electric Potential Difference

Read from Lesson 1 of the Current Electricity chapter at The Physics Classroom:

<http://www.physicsclassroom.com/Class/circuits/u9l1a.html>

<http://www.physicsclassroom.com/Class/circuits/u9l1b.html>

<http://www.physicsclassroom.com/Class/circuits/u9l1c.html>

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

**Review:**

1. **Electric field** is defined as the aura about the space surrounding a charged object that exerts an electrical influence upon other charged objects in that space. The **direction of the electric field vector** is defined as the direction that 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.

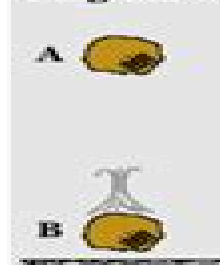
In diagram A, a mass is held at an elevated position. When let go of, the mass falls from point A to point B.

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.

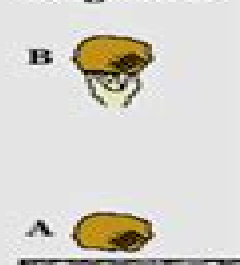
Circle the answers in the space below the diagrams.

**Diagram A**





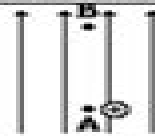
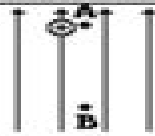
W<sub>nc</sub> done on mass:  
Yes or No  
Highest PE: A or B

**Diagram B**



W<sub>nc</sub> 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 Potential Difference Worksheet Answers

**Jim (James William) Ross, Jim  
Ross, Mike Lattner**



## Electric Potential Difference Worksheet Answers:

*Science Interactions*, 1996      **Radiologic Science** Stewart C. Bushong, 1984      **Merrill Chemistry** Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998      *U.S. Industrial Directory*, 1981      V Suzanne Meszoly, 1995

**Constant and Time Varying Potential Difference (voltage) Current and Power in Electric Circuits** Everard Mott Williams, A. K. Mukhopadhyay, 1965      *Electric Potential*, 2015 Jolt your understanding of electric potential difference or voltage A volt is one joule of work or energy per coulomb of charge Survey the characteristics of voltage from batteries to Van de Graaff generators to thunderstorms which discharge lightning across a potential difference of millions of volts

*Practical Electricity* Cleveland armature works, Cleveland, Cleveland Armature Works, 1908      **Electricity** Rumi Michael Leigh, 2023-05-24 Electricity Things You Should Know Questions and Answers explains key concepts of electricity through a question and answer format The book covers current voltage resistance and power showing how they relate through Ohm's law It examines series and parallel circuits conductors insulators and the behavior of alternating current and direct current Topics include electromagnetism transformers generators capacitors inductors wiring fuses and circuit breakers Step by step examples demonstrate how to calculate values in electrical circuits and how electricity is applied in daily life The text also addresses safety measures energy consumption and the role of electricity in modern technology This book will interest students science learners and exam candidates who want to study electricity its principles and applications      **On the**

**Conception of Electrical Potential Difference Between Two Phases. II.** E. A. Guggenheim, 1930      **Practical Electricity**, 1911      **Explaining Electricity** Jim (James William) Ross, Jim Ross, Mike Lattner, 2004 Electricity can be easy to understand A fruitful model of simple electric circuits is developed and applied in these pages The approach is highly pictorial electric potential Volts and electric current Amps are represented by simple diagrams The student is expected to use these diagrams as the principal mode of analyzing circuits When algebra and equations are introduced the student already has an understanding of  $V$   $I$   $R$  and  $P$  from the diagrams As in all of the Ross Lattner IntuitivScience series diagrams are an important mode of expression Parents and teachers you get one half of the book We provide solid pedagogical supports recipes and methods of presentation The unit itself is further subdivided into four sections approximating four weeks of 70 minute classes 1 Static electricity and the electrical structure of matter 2 Characteristics of electric current and development of a model of current potential resistance and power 3 Mathematical treatment of series and parallel circuits 4 Projects that are either an application of the model or an extensions of the model At the end of sections 1 3 is a thorough quiz in the same pictorial style Because this unit involves fundamental forces and concepts we recommend that it be placed first in the series of the four Ross Lattner Grade Nine Academic IntuitivScience books In particular this book should be placed before chemistry      Discovering Ohm's Law. with Great Power Comes Great Current Squared Times Resistance Nino Crisolo, 2018-08-29 Submitted Assignment from the year 2016 in the subject Physics Physics general grade 98 University of

the Philippines language English abstract In exploring the world of electricity it is essential to start by understanding the basic concepts of current resistance and voltage or potential difference These three key building blocks are required to manipulate and investigate electricity Unseen concept like this can be detected by the use of measuring tools such as ammeter voltmeter and ohmmeter This will help the students visualize what is happening with the charge in a system The relationship between voltage current and resistance will be explained thoroughly in this learning booklet

**Difference of Electrical Potential at Phase Boundaries** H. Mastin, University of Manchester, 1924      Questions and Answers on Practical Electricity Joseph Gerald Branch, 1914      Electric Potential Energy Chemical Bond Approach Project, Walter E. Hunter, 1963      *Alternate Current and Potential Difference Analogies in the Methods of Measuring Power* William Eduard Ayrton, W. E. Sumpner,      *Alternate Current And Potential Difference Analogies In The Methods Of Measuring Power* W.E. Ayrton,      *Contact Potential Difference Between Water and Ice* V. I. Arabadzhi, 1950 The contact potential difference between water and ice has never been previously measured although this difference is of considerable importance in meteorology In our opinion it is precisely the collision of drops of water with ice crystals in clouds which causes the electricity of lightning The experiments show that the contact potential difference between water and ice is 0.17 plus or minus 0.025 Thus contrary to the opinions of Simpson and Wilson we believe the chief cause of the electricity of lightning is the contact potential difference between water and ice Author      An Alternating Current Potential Difference Leon Grabowski, 1983

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