

Name: \_\_\_\_\_

### E-Fields PhET Lab, v.04 2011

**Introduction:** It can be rationalized that the most important concept in physical science is like things \_\_\_\_\_ while opposite things \_\_\_\_\_. When working with static electric charges, like charges \_\_\_\_\_ while opposite charges \_\_\_\_\_. These charges can be as large as clouds of ionized gas in a nebula one million times the size of the earth, or as small as protons and electrons. The rule remains the same. In this lab, you will investigate how a charge creates a field around itself and how test charges behave when placed in that field.



#### Important Formulas:

$$F = Eq$$

$$F = k \frac{q_1 q_2}{d^2}$$

$$E = V/d$$

$$k = 9.00 \times 10^9 \text{ Nm}^2/\text{C}^2$$



#### Procedure Part I: Electricity, Magnets, and Circuits → Charges and Fields

[Run Sim](#)

- Place a 1 nC (nanoCoulomb) positive charge and E-Field sensor in the test area. Click [Show E-field](#) to observe the field lines in the E-field. Observe the sensor's arrow as you drag it around the in the field.
- The sensor's arrow illustrates the **force** of attraction or repulsion at a point in an electric field.
- Replace the positive charge with a negative point charge. To remove charges, drag them back into their box. By convention, field arrows point \_\_\_\_\_ a positive charge and \_\_\_\_\_ a negative charge.

As the sensor gets closer to a point charge, the field strength created by that field \_\_\_\_\_

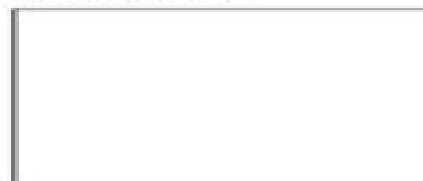
- Click on [show numbers](#) and [tape measure](#) to measure the distances from a field-creating charge to a test charge. The tape measure can be dragged to a specific distance and placed anywhere on the field.
- When measuring field strength, click [plot](#) to show **lines of equipotential**.
- Complete the table below using a single positive or negative charge:

[Show numbers](#)  
[tape measure](#)

Test charge distance, m	Field strength, V/m	Potential at location, V
1.0 m		
2.5 m		
	1.1 V/m	
4.0 m		



- Add at least three charges, using both positive and negative charges. Move the voltage meter around and [plot](#) the lines of equipotential. Plot at least ten lines.
- Sketch the multi-charge system
- Show the value of the potential equipotential.



here:  
on each line of

# E Fields Phet Lab 1 Answers

**United States. Energy Research and  
Development Administration**

## E Fields Phet Lab 1 Answers:

**Eye Tracking for STEM Education Research: New Perspectives** Pascal Klein, Martin Rusek, Maike Schindler, 2024-04-04 A modern approach to improving education uses the components of experimental scientific research practices based on objective data dissemination of results and the use of modern technologies STEM education research is maturing and new tools and analysis techniques become available As one example eye tracking the recording of persons eye movements has been growing in popularity as it enables researchers to study learning materials effectiveness problem solving and even students approaches during experimentation Eye movements as captured using eye tracking can reveal information about a student s attention and cognition on a process level going well beyond classical product based assessment techniques such as questionnaires or tests      New Developments in Science and Technology Education Martin Riopel, Zacharoula Smyrniou, 2016-02-11 This book explores the beneficial impact of pedagogically updated practices and approaches in the teaching of science concepts as well as elaborates on future challenges and emerging issues that address Science and Technology Education By pointing out new research directions it informs educational practices and bridges the gap between research and practice providing information ideas and new perspectives The book also promotes discussions and networking among scientists and stakeholders such as researchers professors students and companies developing educational software and ICT tools The volume presents papers from the First International Conference on New Developments in Science and Technology Education 1st NDSTE that was structured around four main thematic axes Modern Pedagogies in Science and Technology Education New Technologies in Science and Technology Education Teaching and Learning in the light of Inquiry learning Methods and Interest Attitude and Motivation in Science      **Online Engineering & Internet of Things** Michael E. Auer, Danilo G. Zutin, 2017-09-14 This book discusses online engineering and virtual instrumentation typical working areas for today s engineers and inseparably connected with areas such as Internet of Things cyber physical systems collaborative networks and grids cyber cloud technologies and service architectures to name just a few It presents the outcomes of the 14th International Conference on Remote Engineering and Virtual Instrumentation REV2017 held at Columbia University in New York from 15 to 17 March 2017 The conference addressed fundamentals applications and experiences in the field of online engineering and virtual instrumentation in the light of growing interest in and need for teleworking remote services and collaborative working environments as a result of the globalization of education The book also discusses guidelines for education in university level courses for these topics      **Scientific and Technical Aerospace Reports** ,1994-02      **Principles of Electric Circuits** Thomas L. Floyd, 2000 CD ROM includes 100 EWB circuits for the textbook s troubleshooting and analysis problems demonstration version of EWB version 5 X software and a full student version of EWB version 5 X available for purchase Preface      **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977      **Energy Research Abstracts** ,1987      **Government**

**Reports Announcements & Index** ,1995-12     A Concordance to the Poetical and Dramatic Works of Alfred, Lord Tennyson Arthur Ernest Baker,1914     U.S. Government Research & Development Reports ,1967     Directory of Members ... Federation of American Societies for Experimental Biology,2006     **Houston (Texas) City Directories** ,1959 Some years are missing     *A Concordance to the Poems of Robert Browning* Leslie Nathan Broughton,Benjamin Franklin Stelter,1924     **Chemical Abstracts** ,1990     **Science Citation Index** ,1994 Vols for 1964 have guides and journal lists  
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**Government Reports Announcements** ,1967     **Bibliography of Scientific and Industrial Reports** ,1967-10  
**Arts & Humanities Citation Index** ,1975 A multidisciplinary index covering the journal literature of the arts and humanities It fully covers 1 144 of the world s leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals

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### **E Fields Phet Lab 1 Answers Introduction**

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