

## Holt Physics Chapter 16 Coulomb's Law Activity Sheet

Coulomb's law states that the electric force,  $F_{electric}$ , between two charged particles that have charges  $q_1$  and  $q_2$  and are separated by distance  $r$  is given by the following equation:

$$F_{electric} = k_C \left( \frac{q_1 q_2}{r^2} \right)$$

On the graphing calculator, this equation has been entered into  $Y_1$  as follows:

$$Y_1 = 8.99E9(AB/X^2)$$

In the graphing calculator program ELF, you will enter the charges and observe a graph of electric force versus distance. By analyzing the graphs for different sets of charges (positive with positive, negative with negative, and positive with negative), you will gain a better understanding of Coulomb's law and how charge and distance affect electric force.

Download the ELF program to your TI-83/84 calculator. Press **PRGM**, then scroll down to ELF by pressing **▾**. Press **ENTER** twice to start the program. Enter the value for the charges (see below). The calculator will produce a graph of electric force vs. distance. Use **TRACE** to determine the force at selected distances (see below). Press **2nd****[QUIT]** to stop viewing the graph. Press **ENTER** to restart the program.

- The value 8.99E9 appears in the equation for  $Y_1$ . What are the units of this value of  $k_C$ ?
- Calculate the electric forces for the following charges and distances.

$q_1$ (C)	$q_2$ (C)	$r$ (m)	$F_{electric}$ (N)
$7.5 \times 10^{-5}$	$3.2 \times 10^{-6}$	0.05	
$7.5 \times 10^{-5}$	$3.2 \times 10^{-6}$	0.10	
$7.5 \times 10^{-5}$	$3.2 \times 10^{-6}$	0.20	
$-7.5 \times 10^{-5}$	$-3.2 \times 10^{-6}$	0.10	
$7.5 \times 10^{-5}$	$-3.2 \times 10^{-6}$	0.10	
$-7.5 \times 10^{-5}$	$3.2 \times 10^{-6}$	0.10	
$7.5 \times 10^{-5}$	$3.2 \times 10^{-6}$	0.10	

- The magnitude of the electric force \_\_\_\_\_ (increases or decreases) the magnitude of the charges, and the force \_\_\_\_\_ (increases or decreases) as the distance between the charges increases.
- The magnitude of the electric force is \_\_\_\_\_ (dependent on or independent of) the signs of the charges.
- The electric force is positive and repulsive when the charges have the \_\_\_\_\_ (same or opposite) signs and is negative and attractive when the charges have the \_\_\_\_\_ (same or opposite) signs.

# Holt Physics Chapter 16

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## Holt Physics Chapter 16:

**Holt Physics**, 2000-12     Holt Physics Raymond A. Serway, 2002     Physics Holt Rinehart & Winston, 2000-12     Holt Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-03     **Holt Physical Science** William L. Ramsey, 1997-11     **Autumn of Our Discontent** John Curatola, 2022-06-15 In the Fall of 1949 a series of international events shattered the notion that the United States would return to its traditional small peacetime military posture following World War II Autumn of our Discontent chronicles the events that triggered the wholesale review of United States national security policies The review led to the adoption of recommendations advanced in NSC 68 which laid the foundation for America's Cold War activities expanded conventional forces sparked a thermonuclear arms race and equally important to the modern age established the national security state all clear breaks from America's martial past and cornerstone ideologies In keeping with the American military tradition the United States dismantled most of its military power following World War II while Americans in general enjoyed unprecedented post war and peacetime prosperity In the autumn of 1949 however the Soviet's first successful test of their own atomic weapon in August was followed closely by establishment of the communist People's Republic of China on October 1st shattered the illusion that American hegemony would remain unchallenged Combined with the decision at home to increase the size of the atomic stockpile on and the on going debate regarding the Revolt of the Admirals the United States found itself facing a new round of crisis in what became the Cold War Curatola explores these events and the debates surrounding them to provide a detailed history of an era critical to our own modern age Indeed the security state conceived of in the events of this critical autumn and the legacy of the choices made by American policymakers and military leaders continue to this day     Elements of Modern Physics Alfred Theodore Goble, David K. Baker, 1971     Mathematical Undecidability, Quantum Nonlocality and the Question of the Existence of God A. Driessen, Antoine Suarez, 2012-12-06 On January 22 1990 the late John Bell held at CERN European Laboratory for Particle Physics Geneva a seminar organized by the Center of Quantum Philosophy that at this time was an association of scientists interested in the interpretation of quantum mechanics In this seminar Bell presented once again his famous theorem Thereafter a discussion took place in which not only physical but also highly speculative epistemological and philosophical questions were vividly debated The list of topics included assumption of free will in Bell's theorem the understanding of mind the relationship between the mathematical and the physical world the existence of unobservable causes and the limits of human knowledge in mathematics and physics Encouraged by this stimulating discussion some of the participants decided to found an Institute for Interdisciplinary Studies IIS to promote philosophical and interdisciplinary reflection on the advances of science Meanwhile the IIS has associated its activities with the Swiss foundation Fondation du Lemman and the Dutch foundation Stichting Instudo registered in Geneva and Amsterdam respectively With its activities the IIS intends to strengthen the unity between the professional activities in science and the reflection on fundamental philosophical questions

In addition the interdisciplinary approach is expected to give a contribution to the progress of science and the socio economic development At present three working groups are active within the IIS i e the Center for Quantum Philosophy the Wealth Creation and Sustainable Development Group the Neural Science Group *Holt Science and Technology* Holt, Rinehart and Winston Staff,2001 **Books in Print Supplement** ,2002 God and the Atom Victor J. Stenger,2013-04-09 This history of atomism from Democritus to the recent discovery of the Higgs boson chronicles one of the most successful scientific hypotheses ever devised Originating separately in both ancient Greece and India the concept of the atom persisted for centuries despite often running afoul of conventional thinking Until the twentieth century no direct evidence for atoms existed Today it is possible to actually observe atoms using a scanning tunneling microscope In this book physicist Victor J Stenger makes the case that in the final analysis atoms and the void are all that exists The book begins with the story of the earliest atomists the ancient Greek philosophers Leucippus Democritus and Epicurus and the Latin poet Lucretius As the author notes the idea of elementary particles as the foundation of reality had many opponents throughout history from Aristotle to Christian theologians and even some nineteenth century chemists and philosophers While theists today accept that the evidence for the atomic theory of matter is overwhelming they reject the atheistic implications of that theory In conclusion the author underscores the main point made throughout this work the total absence of empirical facts and theoretical arguments to support the existence of any component to reality other than atoms and the void can be taken as proof beyond a reasonable doubt that such a component is nowhere to be found Becoming a Secondary School Science Teacher Leslie W. Trowbridge,Rodger W. Bybee,1986 **Electrons, Atoms, and Molecules in Inorganic Chemistry** Joseph J. Stephanos,Anthony W. Addison,2017-06-01 *Electrons Atoms and Molecules in Inorganic Chemistry A Worked Examples Approach* builds from fundamental units into molecules to provide the reader with a full understanding of inorganic chemistry concepts through worked examples and full color illustrations The book uniquely discusses failures as well as research success stories Worked problems include a variety of types of chemical and physical data illustrating the interdependence of issues This text contains a bibliography providing access to important review articles and papers of relevance as well as summaries of leading articles and reviews at the end of each chapter so interested readers can readily consult the original literature Suitable as a professional reference for researchers in a variety of fields as well as course use and self study The book offers valuable information to fill an important gap in the field Incorporates questions and answers to assist readers in understanding a variety of problem types Includes detailed explanations and developed practical approaches for solving real chemical problems Includes a range of example levels from classic and simple for basic concepts to complex questions for more sophisticated topics Covers the full range of topics in inorganic chemistry electrons and wave particle duality electrons in atoms chemical binding molecular symmetry theories of bonding valence bond theory VSEPR theory orbital hybridization molecular orbital theory crystal field theory ligand field theory electronic spectroscopy vibrational and

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**Radar in Meteorology** David Atlas,2015-03-30 This fully illustrated volume covers the history of radar meteorology deals with the issues in the field from both the operational and the scientific viewpoint and looks ahead to future issues and how they will affect the current atmosphere With over 200 contributors the volume is a product of the entire community and represents an unprecedented compendium of knowledge in the field     **Mechanics** Ray O. Skinner,1969     The Dial Francis Fisher Browne,Scofield Thayer,Waldo Ralph Browne,1898     Chemical Principles in Practice Jerry A. Bell,1967 This forward looking laboratory text includes thirty three experiments designed to serve high level introductory chemistry courses It is intended in part to give the students practice in techniques not only those generally considered the techniques of chemistry but also those of mathematics However the only prerequisite is a good background in high school mathematics Ideally suited for use with University Chemistry or College Chemistry by Bruce Mahan this book follows the physical chemistry approach of these and most other modern chemistry texts maintaining the same flavor emphasis and degree of sophistication All experiments are open ended and include suggestions for following them up There is considerable emphasis on the involvement of the student in planning his own procedures and quantitative thinking Publisher

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