



Polarity and Intermolecular Forces

Answer Key

Vocabulary: dipole, dipole-dipole force, dipole-induced dipole force, electronegativity, intermolecular force, ionic bond, London dispersion force, molecule, nonpolar, nonpolar covalent bond, partial charges, polar, polar covalent bond, valence electron

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)



[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

1. A big bully is having a tug-of-war with a small child. There is a ball attached to the middle of the rope.

Toward whom will the ball move? **The big bully.**

2. Two equally strong kids are having a tug-of-war. What do you expect to happen to the ball in this situation? **The ball will stay in the middle, halfway between them.**

Gizmo Warm-up

Just like in a tug-of-war, atoms that are bonded to one another pull on the electrons they share. In the Polarity and Intermolecular Forces Gizmo, you will explore how these opposing forces relate to bond types and the forces between molecules.



To begin, drag the Na (sodium) and Cl (chlorine) atoms into the simulation area. Turn on **Show valence electrons**. A **valence electron** is found in the outermost energy level of the atom.

1. Click **Play** (▶). What do you notice?

The Na atom shrinks and the Cl atom expands. The orange valence electron moves from the Na atom to the Cl atom.

2. Which atom seems to be pulling more on the sodium's one valence electron? **The Cl atom.**

How do you know? **The chlorine atom wins the "tug of war" for the valence electron.**

3. What happens to the colors of the simulated atoms, and what does this indicate?

The Na atom turns blue, indicating a positive charge. The Cl atom turns red, indicating a negative charge.



Polarity And Solutions Answer Key

JA Banks



Polarity And Solutions Answer Key:

Corrosion and Electrochemistry of Zinc Xiaoge Gregory Zhang, 2013-06-29 Humankind's use of zinc stretches back to antiquity and it was a component in some of the earliest known alloy systems. Even though metallic zinc was not discovered in Europe until 1746 by Marggrat, zinc ores were used for making brass in biblical times and an 87% zinc alloy was found in prehistoric ruins in Transylvania. Also, zinc the metal was produced in quantity in India as far back as the thirteenth century well before it was recognized as being a separate element. The uses of zinc are manifold ranging from galvanizing to die castings to electronics. It is a preferred anode material in high energy density batteries e.g. Ni-Zn, Ag-Zn, Zn-Zn. So that its electrochemistry particularly in alkaline media has been extensively explored. In the passive state zinc is photoelectrochemically active with the passive film displaying n-type characteristics. For the same reason that zinc is considered to be an excellent battery anode it has found extensive use as a sacrificial anode for the protection of ships and pipelines from corrosion. Indeed, aside from zinc's well known attributes as an alloying element its widespread use is principally due to its electrochemical properties which include a well placed position in the galvanic series for protecting iron and steel in natural aqueous environments and its reversible dissolution behavior in alkaline solutions. *Algebra Problems*

with Worked Solutions Quantum Scientific Publishing, Each book in our series of worked problems contains hundreds of problems with answers and detailed solutions. The answers are separate from the solutions since many students just want to know that their answer is wrong before trying the problem again. Titles in the series: 1 Pre Algebra Problems with Worked Solutions 2 Algebra Problems with Worked Solutions 3 Pre Calculus Problems with Worked Solutions 4 Calculus Problems with Worked Solutions 5 Statistics Problems with Worked Solutions **The Theory of Problem-Solution Dualities and Polarities**

Kofi Kissi Dompere, 2022-04-25 This book is concerned with the development of the understanding of the relational structures of information knowledge decision choice processes of problems and solutions in the theory and practice regarding diversity and unity principles of knowing science non science and information knowledge systems through dualistic polar conditions of variety existence and nonexistence. It is a continuation of the sequence of my epistemic works on the theories on fuzzy rationality info statics info dynamics entropy and their relational connectivity to information language knowing knowledge cognitive practices relative to variety identification problem solution dualities variety transformation problem solution dualities and variety certainty uncertainty principle in all areas of knowing and human actions regarding general social transformations. It is also an economic theoretic approach in understanding the diversity and unity of knowing and science through neuro decision choice actions over the space of problem solution dualities and polarities. The problem solution dualities are argued to connect all areas of knowing including science and non science social science and non social science into unity with diversities under neuro decision choice actions to support human existence and nonexistence over the space of static dynamic dualities. The concepts of diversity and unity are defined and explicated to connect to the tactics and

strategies of decision choice actions over the space of problem solution dualities The concepts of problem and solution are defined and explicated not in the space of absoluteness but rather in the space of relativity based on real cost benefit conditions which are shown to be connected to the general parent offspring infinite process where every solution generates new problem s which then generates a search for new solutions within the space of minimum maximum dualities in the decision choice space under the principle of non satiation over the space of preference non preference dualities with analytical tools drawn from the fuzzy paradigm of thought which connects the conditions of the principle of opposites to the conditions of neuro decision choice actions in the zone of variety identifications and transformations The Monograph would be useful to all areas of Research Learning and Teaching at Advanced Stages of Knowing and Knowledge Production

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problems in differential calculus covering limits continuity derivatives and their applications The applications are comprised of a variety of approximations growth and decay optimization curve sketching techniques and analytical tools to investigate properties of parametrically given planar curves The problems are sorted by topic each opening with with a summary of the relevant mathematical notions and their properties Through a careful selection of appropriate problems in each chapter the book clearly communicates some of the big ideas and applications in calculus the notion of a function the notion of an infinitesimal the notion of a differentiable function and the notion of an approximation among others The book provides the answers to each problem often with a detailed sketch of the solution process With about 260 true false and multiple choice questions the book provides its users with an accessible way to assess and practice their understanding of calculus related facts and nuances More than 180 figures are included to help readers to visualize properties of functions illustrate word problems depict solutions and provide an extensive bank of polar curves The purpose of this problem collection is to serve as a supplementary learning resource for students who are studying university level differential calculus The book also acts as a teaching resource for calculus instructors

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