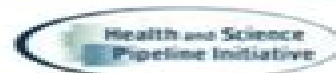


# Determining Bonding Types

HASPI Medical Chemistry Lab

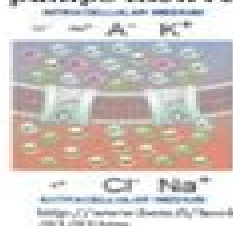


## Background/Introduction

### Electrolytes

How do you feel? No, really, how is it that when you touch something your brain immediately knows something about it? The texture, the temperature, even the size without even looking at it?

This is due to electrical impulses that pass through your body, known as an action potential. This works because your neurons are full of electrolytes. Electrolytes are any ion that dissociates in water, allowing the solution to conduct electricity. Sodium, chloride, potassium and calcium ions are all essential parts of this process. All along the neuron, specific electrolytes are pumped on to either side of the cell membrane, and to send a signal, electrolytes rush across the membrane, allowing the signal to move. The ion pumps then re-set these ions so that the next signal can be sent.

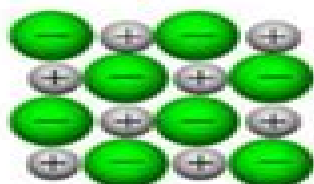


When you are low in electrolytes your body can't communicate with your brain as well and your muscles may cramp. You may feel more fatigue when you are low on electrolytes. You might even crave salty foods, because table salt contains sodium ions, which are a key component needed for nerve signals. Your sweat is full of electrolytes, which is why you need to drink fluids rich in potassium, calcium and sodium when you work out. Sports drinks also contain large amounts of sugar to help give you extra energy when you drink them.

When a patient has diarrhea, one of the key things they lose is electrolytes. For this reason, it is important to drink more than plain water when you have diarrhea, because you need to replace your electrolytes to keep you strong. You also need to have electrolytes to help you absorb water because your body absorbs water through osmosis, which means that water follows the electrolytes. Pediatricians recommend that kids drink Pedialyte when they are sick so that they get the right mix of electrolytes in their liquids, but this works for any age. If you don't have Pedialyte then you can use Gatorade or another sports drink, however the large amount of sugar is not always a good idea when you're sick, so drink sports drinks in moderation or pick up some Pedialyte liquid or freezer pops!



http://www.pedialyte.com



http://www.biology.com/biology/03/03/03.htm

## The Chemistry

Ionic, Covalent & Metallic compounds each have physical properties that relate to their structures, so there are some tests we can do to help identify the type of bonding in a substance.

### Melting Points

An ionic bond is made when ions of opposite charges come together to create a crystal lattice structure. In order to melt an ionic compound the temperature has to rise until the ions move with enough force to break away from the oppositely

# Determining Bonding Types Lab Answers

**G Thomas**



## **Determining Bonding Types Lab Answers:**

**Handbook of Aluminum Bonding Technology and Data** J. D. Minford, 1993-06-16 A reference that offers comprehensive discussions on every important aspect of aluminum bonding for each level of manufacturing from mill finished to deoxidized conversion coated anodized and painted surfaces and provides an extensive up to date review of adhesion science covering all significant aspects.

*Stirring the Head, Heart, and Soul* H. Lynn Erickson, 2008 This book is a potent reminder of what it means when teachers teach whole human beings their minds hearts and souls Erickson helps us recall what all great teachers know quality teaching is about building young lives Carol Ann Tomlinson Professor University of Virginia Author The Parallel Curriculum Erickson sets the standard for concept based curriculum Her work offers a theoretically rich and eminently practical approach for constructing curriculum around rich transferable concepts The third edition extends this seminal work for the benefit of educators and their students Jay McTighe Educational Consultant McTighe and Associates Author Understanding by Design Help students analyze and synthesize information for a deeper understanding of big ideas This updated edition of the classic bestseller on curriculum design for quality instruction provides practical structures planning tools and specific classroom examples of effective teaching strategies The author focuses on the need for curriculum and instruction that allows students to move beyond factual learning to a level of understanding where knowledge transfers readily to new situations and thinking becomes integrated The book's wide ranging topics include Aligning local curriculum with state and national content standards Using brain based teaching methods Developing higher order thinking skills Assessing and reporting student progress Creating a lifelong love of learning in students This invaluable resource encourages teachers to create an educational environment that challenges students personal intellect engages their spirits and fosters a greater understanding of the world around them

**Nuclear Science Abstracts**, 1976-03 **Chemical Interactions**, 2005 **Scientific and Technical Aerospace Reports**, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Energy Research Abstracts**, 1990 **Advances in Comminution** S. K. Kawatra, 2006 The 36 chapters are based on the 2006 SME symposium Page 4 de la couverture **Light Metals 2025** Les Edwards, 2025-03-02 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2025 collection includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Decarbonization and Sustainability in Aluminum Primary Processing Joint Session of Aluminum Reduction Electrode Technology and REWAS 2025 Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Recycling and Sustainability in Cast Shop Technology Joint Session with REWAS 2025

Scandium Extraction and Use in Aluminum Alloys      Toxicology Research Projects Directory ,1979      **Western Aviation, Missiles, and Space** ,1955      **Bibliography on Nuclear Reactor Fuel Reprocessing and Waste Disposal: Process chemistry and engineering** T. F. Connolly,1960      *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards,1966      *Journal of Research of the National Bureau of Standards* ,1966      **Coal Abstracts** ,1988      **Chemistry** McGraw-Hill Staff,2001-07      **CIM Bulletin** Canadian Institute of Mining and Metallurgy,Canadian Institute of Mining, Metallurgy and Petroleum,1980      *Gridpoints* ,2001      INIS Atomindex ,1987      American Laboratory ,1978      **International Handbook of Research on STEAM Curriculum and Practice** Stephen J. Farenga,Salvatore G. Garofalo,Daniel Ness,2025-10-24 This comprehensive handbook delves into curriculum praxis human development and cognition within the contexts of the STEAM disciplines science technology engineering arts architecture and mathematics Cutting edge research will help educators identify best practice techniques for developing students knowledge in STEAM subjects as well as capture contemporary social and political issues within the STEAM context Drawing on the work of over 50 international contributors this volume covers both emergent and established areas of research giving voice to newcomers to the field as well as perspectives from established experts These areas are divided into five sections on foundations content teaching and learning throughout the lifespan equity and enrichment and settings Each topic is considered in both its historical and current context with a focus on the interconnections between theory and practice This book offers a first of its kind overview of STEAM curriculum development which will be especially useful to educational practitioners and researchers of STEAM subjects as well as teacher educators overseeing STEAM education This resource will also be useful for K 12 school and institutional libraries as reference material and for curriculum specialists and administrators seeking to identify methods of best educational practices within STEAM

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