

Name KEY

Orbital Diagrams

Orbital diagrams show the electronic configuration and electron pairings within an atom. Each box represents an orbital. Each orbital can only hold two electrons. Electrons are represented by arrows, which can point up (spin up) or point down (spin down). Remember the two rules for orbital diagrams: *Pauli Exclusion Principle* - no two electrons with the same spin can occupy the same orbital, and *Hund's Rule* - every orbital in the same sublevel must have one electron before electrons will pair.

First label the boxes with their principal energy level number and sublevel letter. Then start to fill in the electrons (put arrows in the boxes). When your orbital diagram is finished, write the final electron configuration on the line below the orbital diagram.

Al

↑↓ 1s		↑↓ 2s		↑↓	↑↓	↑↓		↑↓ 3s		↑		
----------	--	----------	--	----	----	----	--	----------	--	---	--	--

 Electron configuration: $1s^2 2s^2 2p^6 3s^2 3p^1$

C

↑↓ 1s		↑↓ 2s		↑	↑							
----------	--	----------	--	---	---	--	--	--	--	--	--	--

 Electron configuration: $1s^2 2s^2 2p^2$

Si

↑↓ 1s		↑↓ 2s		↑↓	↑↓	↑↓		↑↓ 3s		↑	↑	
----------	--	----------	--	----	----	----	--	----------	--	---	---	--

 Electron configuration: $1s^2 2s^2 2p^6 3s^2 2p^2$

Cl

↑↓ 1s		↑↓ 2s		↑↓	↑↓	↑↓		↑↓ 3s		↑↓	↑↓	↑
----------	--	----------	--	----	----	----	--	----------	--	----	----	---

 Electron configuration: $1s^2 2s^2 2p^6 3s^2 3p^5$

O

↑↓ 1s		↑↓ 2s		↑↓	↑	↑						
----------	--	----------	--	----	---	---	--	--	--	--	--	--

 Electron configuration: $1s^2 2s^2 2p^4$

Draw an orbital diagram for the following atoms on your own.

B

↑↓ 1s		↑↓ 2s		↑		
----------	--	----------	--	---	--	--

 Electron configuration: $1s^2 2s^2 2p^1$

K

↑↓ 1s		↑↓ 2s		↑↓	↑↓	↑↓		↑↓		↑↓	↑↓	↑
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 Electron configuration: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$

Pogil Electron Configurations Answer Key

Jacob N. Israelachvili



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Chemistry 2e Paul Flowers, Richard Langely, William R. Robinson, Klaus Hellmut Theopold, 2019-02-14 *Chemistry 2e* is designed to meet the scope and sequence requirements of the two semester general chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in *Chemistry 2e* are described in the preface to help instructors transition to the second edition *POGIL Activities for High School Chemistry* High School POGIL Initiative, 2012 **Flip Your Classroom** Jonathan Bergmann, Aaron Sams, 2012-06-21 Learn what a flipped classroom is and why it works and get the information you need to flip a classroom You ll also learn the flipped mastery model where students learn at their own pace furthering opportunities for personalized education This simple concept is easily replicable in any classroom doesn t cost much to implement and helps foster self directed learning Once you flip you won t want to go back **Chemistry 2e** Paul Flowers, Klaus Theopold, Richard Langely, Edward J. Neth, William R. Robinson, 2019-02-14 *Chemistry 2e* is designed to meet the scope and sequence requirements of the two semester general chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in *Chemistry 2e* are described in the preface to help instructors transition to the second edition **Quantum Mechanics for Organic Chemists** Howard E. Zimmerman, 1975 *Discipline-Based Education Research* National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on the Status, Contributions, and Future Directions of Discipline-Based Education Research, 2012-08-27 The National Science Foundation funded a synthesis study on the status contributions and future direction of discipline based education research DBER in physics biological sciences geosciences and chemistry DBER combines knowledge of teaching and learning with deep knowledge of discipline specific science content It describes the discipline specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding Discipline Based Education Research is based on a 30 month study built

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Chemistry Bruce Averill,Patricia Eldredge,2007 Emphasises on contemporary applications and an intuitive problem solving approach that helps students discover the exciting potential of chemical science This book incorporates fresh applications from the three major areas of modern research materials environmental chemistry and biological science

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investigation methods and their interpretation are exemplified The philosophy of the new European code for geotechnical design is presented The most important and practical aspects of ground modification techniques are included This book can be used as a textbook for senior undergraduate and graduate students It can also serve as a combined text and handbook for professional engineers working in the field of geotechnical engineering Line drawings and photographs accompany the text

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Physics for the IB Diploma K. A. Tsokos,2005-10-20 This fourth edition of *Physics for the IB Diploma* has been written for the IB student It covers the entire new IB syllabus including all options at both Standard and Higher levels It includes a chapter on the role of physics in the Theory of Knowledge along with many discussion questions for TOK with answers There are a range of questions at the end of each chapter with answers at the back of the book The book also includes worked examples and answers throughout and highlights important results laws definitions and formulae Part I of the book covers the core material and the additional higher level material AHL Part II covers the optional subjects

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Overcoming Students' Misconceptions in Science Mageswary Karpudewan,Ahmad Nurulazam Md Zain,A.L. Chandrasegaran,2017-03-07 This book discusses the importance of

identifying and addressing misconceptions for the successful teaching and learning of science across all levels of science education from elementary school to high school It suggests teaching approaches based on research data to address students common misconceptions Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included The science education literature extensively documents the findings of studies about students misconceptions or alternative conceptions about various science concepts Furthermore some of the studies involve systematic approaches to not only creating but also implementing instructional programs to reduce the incidence of these misconceptions among high school science students These studies however are largely unavailable to classroom practitioners partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them In response this book offers an essential and easily accessible guide [Mechanical Properties of Engineered Materials](#) Wole Soboyejo,2002-11-20 Featuring in depth discussions on tensile and compressive properties shear properties strength hardness environmental effects and creep crack growth Mechanical Properties of Engineered Materials considers computation of principal stresses and strains mechanical testing plasticity in ceramics metals intermetallics and polymers materials selection for thermal shock resistance the analysis of failure mechanisms such as fatigue fracture and creep and fatigue life prediction It is a top shelf reference for professionals and students in materials chemical mechanical corrosion industrial civil and maintenance engineering and surface chemistry

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