

THE FOLLOWING SERVES AS ONLY A GUIDE

CHEMICAL FORMULAS

1. What is the overall charge on a chemical formula? ____ 0 ____
2. ionic bonds form between: ____ metals and non-metals ____
covalent bonds form between: ____ two or more non-metals ____

3-5 Write the formula for each of the following:

- a. sulfur trioxide ____ SO_3 ____
- b. tetrahydrogen decoxide ____ N_4H_{10} ____
- c. hydrofluoric acid: ____ HF ____
- d. Phosphoric acid ____ H_3PO_4 ____
- e. nitrous acid: ____ HNO_2 ____
- f. nickel (II) carbonate ____ NiCO_3 ____
- g. silver hydroxide ____ AgOH ____
- h. aluminum chromate ____ $\text{Al}_2(\text{CrO}_4)_3$ ____
- i. iron (II) oxide ____ Fe_2O_3 ____
- j. bismuth phosphate ____ $\text{Bi}_4(\text{PO}_4)_3$ ____

Write the name for each of the following compounds:

- a. N_2H_4 Dinitrogen tetrahydride
- b. S_2F_6 Disulfur hexafluoride
- c. H_2SO_4 Sulfuric acid
- d. HF Hydrofluoric acid
- e. HClO_2 Chlorous acid
- f. $\text{Mn}(\text{OH})_2$ Manganese (II) hydroxide
- g. Na_2S Sodium sulfide
- h. CaO Calcium oxide
- i. $\text{Sr}(\text{NO}_3)_2$ Strontium nitrate
- j. Cu_2N Copper(I) nitride

6. Write the ion for nitrate, nitrite, and nitride
____ NO_3^- ____ NO_2^- ____ N^{3-} ____

7. When are parentheses used in formula writing? When you have a polyatomic ion in the formula and the oxidation numbers are not the same and when there are more than one polyatomic ion necessary for stability in the formula.

8. What is the purpose for using Roman numerals? In other words, why must they be used with certain transition metals? Certain transition metals form more than one ion and to separate these from each other Roman numerals are used to indicate the charge of each form of the metal. Ex. Iron(II) and Iron(III).

CHEMICAL EQUATION

1. BALANCING A CHEMICAL EQUATION

+ What do these symbols mean in a reaction?

+	oxide
(l)	liquid
(s)	solid
(g)	gas
(aq)	aqueous solution
Δ	heat

2. COEFFICIENTS & SUBSCRIPTS

+ How are chemical equations balanced?
Using coefficients

3. BALANCE CHEMICAL EQUATIONS & TYPES OF RXN

+ What are the 5 types of reactions? (Briefly describe each one.)

- a. Synthesis
- b. Decomposition
- c. Single replacement
- d. Double replacement
- e. Combustion (complete and incomplete)

+ Balance the following reactions and identify the type



Type: DR



Type: Synthesis



Type: SR



Type: Decomposition



Type: Complete combustion

4. PREDICTING PRODUCTS IN A CHEMICAL EQUATION

+ Predict the products of the following reactions, then balance.



d) A combustion rxn involves the rxn of a hydrocarbon and ____ O_2 ____

e) What are the two products of a complete combustion rxn?
____ CO_2 ____ and ____ H_2O ____

f) What are the two products of an incomplete combustion rxn?
____ CO ____ and ____ H_2O ____

5. LAW OF CONSERVATION OF MASS

+ In a chemical rxn what is true about the mass of the reactants compared to the mass of the products? ____ They must be equal ____

STOICHIOMETRY

+ What is the first thing you must do to an equation before you begin a stoichiometric calculation? Balance it.

6. FINDING MOLES & MASS

+ What is the molar mass of $\text{Bi}_4(\text{PO}_4)_3$?
____ 858 g ____

+ What is the molar mass of O_2 ? ____ 32.0g ____

Chemistry Final Exam 2nd Semester

RD Boyd



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United States Air Force Academy United States Air Force Academy,1974 **Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy** United States Air Force Academy,2004

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In the last decade the development of new technologies has made innovation a fundamental pillar of education Teaching innovation includes the evolution of both teaching and learning models to drive improvements in educational methodologies Teaching innovation is a pioneer in the understanding and comprehension of the different teaching methodologies and models developed in the academic area Teaching innovation is a process that seeks validation in the academic and teaching communities at universities in order to promote the improvement and its practices and uses in the future characterized by digital development and data based methods Teaching Innovation in University Education Case Studies and Main Practices features the major practices and case studies of teaching innovation developed in recent years at universities It is a source on study cases focused on teaching innovation methodologies as well as on the identification of new technologies that will help the development of initiatives and practices focused on teaching innovation at higher education institutions Covering topics such as didactic strategics service learning and technology based gamification this premier reference source is an indispensable resource for pre service teachers lecturers students faculty administrators libraries entrepreneurs researchers and academicians

Making Chemistry Relevant Sharmistha Basu-Dutt,2010-02-19 Unique new approaches for making chemistry accessible to diverse students Students interest and achievement in academics improve dramatically when they make connections between what they are learning and the potential uses of that knowledge i n the workplace and or in the world at large Making Chemistry Relevant presents a unique collection of strategies that have been used successfully in chemistry classrooms to create a learner sensitive environment that enhances academic achievement and social competence of students Rejecting rote memorization the book proposes a cognitive constructivist philosophy that casts the teacher as a facilitator helping students to construct solutions to problems Written by chemistry professors and research groups from a wide variety of colleges and universities the book offers a number of creative ways to make chemistry relevant to the student including Teaching science in the context of major life issues and STEM professions Relating chemistry to current events such as global warming pollution and terrorism Integrating science research into the undergraduate laboratory curriculum Enriching the learning experience for students with a variety of learning styles as well as accommodating the visually challenged students Using media hypermedia games and puzzles in the teaching of chemistry Both novice and experienced faculty alike will find valuable ideas ready to be applied and adapted to enhance the learning experience of all their students

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collection of stories written by the members of the Class of 1962 the fourth class to graduate from the United States Air Force Academy the original Red Tag Bastards on the occasion of their 50th class reunion *Teach Students How to Learn* Sandra Yancy McGuire, 2023-07-03 Co published with NISOD Miriam a freshman Calculus student at Louisiana State University made 37.5% on her first exam but 83% and 93% on the next two Matt a first year General Chemistry student at the University of Utah scored 65% and 55% on his first two exams and 95% on his third These are representative of thousands of students who decisively improved their grades by acting on the advice described in this book What is preventing your students from performing according to expectations Sandra McGuire offers a simple but profound answer If you teach students how to learn and give them simple straightforward strategies to use they can significantly increase their learning and performance For over a decade Sandra McGuire has been acclaimed for her presentations and workshops on metacognition and student learning because the tools and strategies she shares have enabled faculty to facilitate dramatic improvements in student learning and success This book encapsulates the model and ideas she has developed in the past fifteen years ideas that are being adopted by an increasing number of faculty with considerable effect The methods she proposes do not require restructuring courses or an inordinate amount of time to teach They can often be accomplished in a single session transforming students from memorizers and regurgitators to students who begin to think critically and take responsibility for their own learning Sandra McGuire takes the reader sequentially through the ideas and strategies that students need to understand and implement First she demonstrates how introducing students to metacognition and Bloom's Taxonomy reveals to them the importance of understanding how they learn and provides the lens through which they can view learning activities and measure their intellectual growth Next she presents a specific study system that can quickly empower students to maximize their learning Then she addresses the importance of dealing with emotion attitudes and motivation by suggesting ways to change students' mindsets about ability and by providing a range of strategies to boost motivation and learning finally she offers guidance to faculty on partnering with campus learning centers She pays particular attention to academically unprepared students noting that the strategies she offers for this particular population are equally beneficial for all students While stressing that there are many ways to teach effectively and that readers can be flexible in picking and choosing among the strategies she presents Sandra McGuire offers the reader a step by step process for delivering the key messages of the book to students in as little as 50 minutes Free online supplements provide three slide sets and a sample video lecture This book is written primarily for faculty but will be equally useful for TAs tutors and learning center professionals For readers with no background in education or cognitive psychology the book avoids jargon and esoteric theory *Organic Chemistry Education Research into Practice* Jay Wackerly, Sarah Zingales, Michael Wentzel, Gautam Bhattacharyya, Brett McCollum, 2025-03-25 This Research Topic has three main goals 1 provide a platform for instructors of organic chemistry to showcase evidence based methods and educational theories they have utilized in their

classrooms 2 build new and strengthen existing connections between educational researchers and practitioners and 3 highlight how people have used chemical education based research in their teaching practice There are places in the literature dedicated for chemical education research CER however there is not a clear avenue for those that have changed their teaching methods based on published CER and report their experiences Creating this article collection will foster collaboration between chemical education researchers and teachers of organic chemistry This opportunity allows these instructors to share evidence based practices experiences challenges and innovative approaches from CER literature and beyond This Research Topic bridges discipline based education research and the scholarship of teaching and learning which will help advance organic chemistry education and improve student outcomes

Announcements for Register of Alumni
University of Michigan. College of Pharmacy,1901 **Advances in Medical Education** A.J.J.A. Scherpbier,Cees P.M. van der Vleuten,J.J. Rethans,A.F.W. van der Steeg,2012-12-06 About 550 registrants from 51 different countries attended the Seventh Ottawa Conference on Medical Education and Assessment in Maastricht We received 525 abstracts for the conference divided in thematic poster sessions and platform presentations Organising the conference was an honour and we tried to meet the high standards of a friendly and relaxed atmosphere which has characterized previous Ottawa conferences During and after the conference about 250 papers were submitted for publication in the conference proceedings leaving us little time for a post conference depression Despite the large number of papers the editors have attempted to review and edit the papers as care fully as possible Occasionally however correspondence exceeded reasonable deadlines preventing careful editing of a small number of the papers Although we felt that our editorial task was not quite finished we nevertheless decided to include these papers We thank the many authors for their enthusiastic and prompt response to occasionally tedious editorial suggestions and requests We are sure that this collective effort has resulted in a book that will make an important contribution to the field of medical education The editors want to thank Jocelyn Flippo Berger whose expertise with desk top publishing and perseverance was a great help

Whole-class Inquiry Dennis W. Smithenry,Joan Gallager-Bolos,2009 In response to requests from science education professionals this is the perfect vehicle for implementing and assessing this concept of whole class inquiry in your classroom This is a must have package for preservice and inservice middle and high school science teachers

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