

Buffers

How can a solution neutralize both acids and bases?

Why?

Buffer solutions are a mixture of substances that have a fairly constant pH regardless of addition of acid or base. They are used in medicine, industry and manufacturing to keep the pH of a solution stable regardless of other reactions that might be occurring. You have buffers in your blood, for example, because the proper function of enzymes is dependent on the pH of your blood staying in a narrow range. Eating, breathing and exercising can all alter the acidity or basicity of your blood, but the buffers in your blood help control the pH and keep all of your enzymes working properly.

Model 1 – Comparing Solutions:

Beaker A: 100 mL Pure Water



	WB	WA	CA	CB
			H_3O^+	OH^-
I	—		0	0
C	—		$+1.0 \times 10^{-7}$	$+1.0 \times 10^{-7}$
E	—		1.0×10^{-7}	1.0×10^{-7}

Beaker B: 100 mL of 1.00 M HCl



	SA	WB	CA	CB
	HCl		H_3O^+	Cl^-
I	1.00		0	0
C	-1.00		+1.00	+1.00
F	0		1.00	1.00

Beaker C: 100 mL of 1.00 M HNO_2

$$K_a \text{ of } \text{HNO}_2 = 4.6 \times 10^{-4}$$



	WA	WB	CA	CB
	HNO_2		H_3O^+	NO_2^-
I	1.00		0	0
C	-x		+x	+x
E	$1.00 - x$		x	x
	0.98		2.1×10^{-3}	2.1×10^{-3}

$$K_a = 4.6 \times 10^{-4} = \frac{[\text{H}_3\text{O}^+][\text{NO}_2^-]}{[\text{HNO}_2]} = \frac{x \cdot x}{1.00 - x}$$

$$4.6 \times 10^{-4} = \frac{x^2}{1.00} \text{ and } x = 2.1 \times 10^{-3}$$

Beaker D: 100 mL of 1.00 M HNO_2 mixed with 100 mL of 1.00 M NaNO_2 (Be careful-dilution!!!)



	WA	WB	CA	CB
	HNO_2		H_3O^+	NO_2^-
I	0.500		0	0.500
C	-x		+x	+x
E	$0.500 - x$		x	$0.500 + x$
	0.500		4.6×10^{-4}	0.500

$$K_a = 4.6 \times 10^{-4} = \frac{[\text{H}_3\text{O}^+][\text{NO}_2^-]}{[\text{HNO}_2]} = \frac{x(0.500 + x)}{(0.500 - x)}$$

$$4.6 \times 10^{-4} = \frac{x(0.500)}{0.500} \text{ and } x = 4.6 \times 10^{-4}$$

- For each beaker in Model 1, underneath each reaction equation, write SA (strong acid), SB (strong base), WA (weak acid), or WB (weak base) for the reactants; and write CA (conjugate acid) or CB (conjugate base) for the products.
- For Beaker A and B, fill in the ICE/ICF charts to determine all equilibrium/final concentrations of the molecules or ions. ICF ("final") is used for reactions that go to completion, such as reactions with strong acids or bases. For these the change will stoichiometrically consume the limiting reactant.
- For Beaker C and D, fill in the ICE charts, using "x" values as needed. Then, underneath each ICE chart, write the K_a expression and show calculations to determine the value of "x." Then, go back and modify values in the Equilibrium row so that each concentration is a numerical value. (Substitute in all "x" values.)

Pogil 16 Answer Key

Mei-Hung Chiu, Hsiao-Lin Tuan, Hsin-Kai Wu, Jing-Wen Lin, Chin-Cheng Chou

Pogil 16 Answer Key:

POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes

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Teaching and Learning STEM Richard M. Felder,Rebecca Brent,2024-03-19 The widely used STEM education book updated Teaching and Learning STEM A Practical Guide covers teaching and learning issues unique to teaching in the science technology engineering and math STEM disciplines Secondary and postsecondary instructors in STEM areas need to master specific skills such as teaching problem solving which are not regularly addressed in other teaching and learning books This book fills the gap addressing topics like learning objectives course design choosing a text effective instruction active learning teaching with technology and assessment all from a STEM perspective You ll also gain the knowledge to implement learner centered instruction which has been shown to improve learning outcomes across disciplines For this edition chapters have been updated to reflect recent cognitive science and empirical educational research findings that inform STEM pedagogy You ll also find a new section on actively engaging students in synchronous and asynchronous online courses and content has been substantially revised to reflect recent developments in instructional technology and online course development and delivery Plan and deliver lessons that actively engage students in person or

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Brame,2019-02-06 Science Teaching Essentials Short Guides to Good Practice serves as a reference manual for science faculty as they set up a new course consider how to teach the course figure out how to assess their students fairly and efficiently and review and revise course materials This book consists of a series of short chapters that instructors can use as resources to address common teaching problems and adopt evidence based pedagogies By providing individual chapters that can be used independently as needed this book provides faculty with a just in time teaching resource they can use to draft a new syllabus This is a must have resource for science health science and engineering faculty as well as graduate students and post docs preparing for future faculty careers Provides easily digested practical research based information on how to teach Allows faculty to efficiently get up to speed on a given pedagogy or assessment method Addresses the full range of faculty experiences as they being to teach for the first time or want to reinvent how they teach **Mindset Matters** Daniel R. Porterfield,2024-06-25 How colleges can foster growth mindsets among students and why this approach matters We live in an era of escalating tech fueled change Our jobs and the skills we need to work and thrive are constantly evolving and those who can t keep up risk falling behind That s where college comes in In Mindset Matters Daniel R Porterfield advances a powerful new argument about the value of residential undergraduate education and its role in developing growth mindsets among students The growth mindset according to Porterfield is the belief that we can enhance our core qualities or talents through our efforts strategies and education and with assistance from others People with growth mindsets have faith in self improvement They tend to be goal oriented and optimistic confident that they can master new challenges because they ve done so in the past Feedback is their friend errors their opportunities to begin again For students like this college is a multiyear process of self creation and self emergence a becoming that unfolds because they are applying themselves in a place rich with stimulating people happenings resources and ideas America s colleges and universities help students build the skills and self confidence they need for lifelong discovery creativity mentorship teamwork and striving These five mindsets the book argues are critical for thriving in disruptive times and students who develop them will reap the rewards long after they graduate To show how college activates these mindsets and why it matters Porterfield shares the personal stories of thirty recent graduates many the first in their families to attend college Their growth was both self powered and supported by involved faculty engaged peers and opportunity rich campuses Porterfield also outlines how colleges and universities can do more to foster cultures of mentoring and personalized learning that help students become leaders of their

own learning **Chemistry Education and Sustainability in the Global Age** Mei-Hung Chiu,Hsiao-Lin Tuan,Hsin-Kai Wu,Jing-Wen Lin,Chin-Cheng Chou,2012-12-05 This edited volume of papers from the twenty first International Conference on Chemical Education attests to our rapidly changing understanding of the chemistry itself as well as to the potentially enormous material changes in how it might be taught in the future Covering the full range of appropriate topics the book features work exploring themes as various as e learning and innovations in instruction and micro scale lab chemistry In sum the 29 articles published in these pages focus the reader s attention on ways to raise the quality of chemistry teaching and learning promoting the public understanding of chemistry deploying innovative technology in pedagogy practice and research and the value of chemistry as a tool for highlighting sustainability issues in the global community Thus the ambitious dual aim achieved in these pages is on the one hand to foster improvements in the teaching and communication of chemistry whether to students or the public and secondly to promote advances in our broader understanding of the subject that will have positive knock on effects on the world s citizens and environment In doing so the book addresses as did the conference the neglect suffered in the chemistry classroom by issues connected to globalization even as it outlines ways to bring the subject alive in the classroom through the use of innovative technologies Learning, Design, and Technology J. Michael Spector,Barbara B. Lockee,Marcus D. Childress,2023-10-14 The multiple related fields encompassed by this Major Reference Work represent a convergence of issues and topics germane to the rapidly changing segments of knowledge and practice in educational communications and technology at all levels and around the globe There is no other comparable work that is designed not only to gather vital current and evolving information and understandings in these knowledge segments but also to be updated on a continuing basis in order to keep pace with the rapid changes taking place in the relevant fields The Handbook is composed of substantive 5 000 to 15 000 words peer reviewed entries that examine and explicate seminal facets of learning theory research and practice It provides a broad range of relevant topics including significant developments as well as innovative uses of technology that promote learning performance and instruction This work is aimed at researchers designers developers instructors and other professional practitioners

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