

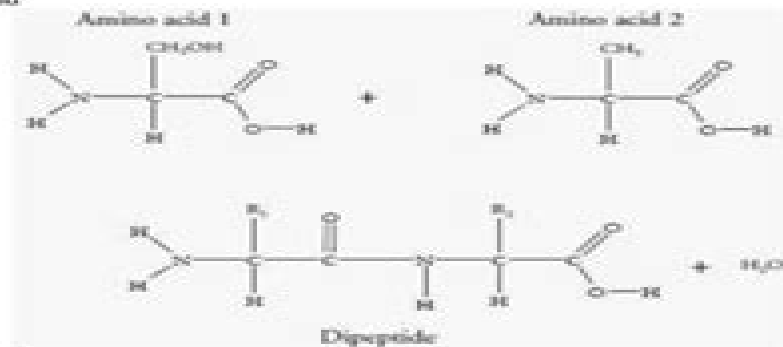
## Protein Structure POGIL™ Activities for AP® Biology

What are the levels of protein structure and what role do functional groups play?

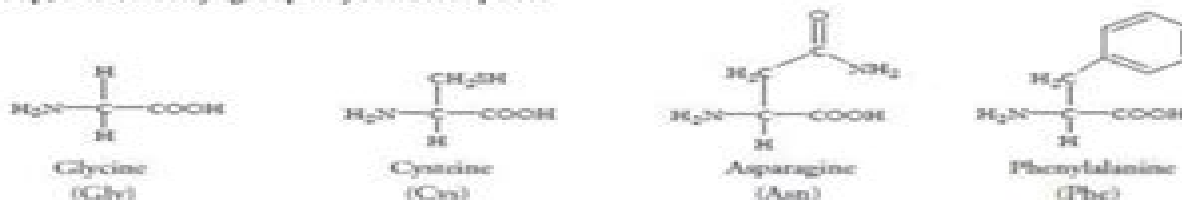
### Why?

Proteins accomplish many cellular tasks such as facilitating chemical reactions, providing structure, and carrying information from one cell to another. How a protein chain coils up and folds determines its three-dimensional shape. Its shape will, in turn, determine how it interacts with other molecules and thus performs its function in the cell.

### Model 1 – Formation of a Peptide Bond



- Examine the amino acids in Model 1.
  - Circle an amine group in the diagram.
  - Draw a triangle around a carboxylic acid (carboxyl) group.
- How are the amino acids similar to one another?
- How are the amino acids different from one another?
- How many amino acids are involved in the reaction to make a dipeptide?
- In Model 1 the original amino acids are combined through a **condensation reaction** to make the dipeptide.
  - What does R1 represent in the dipeptide?
  - What does R2 represent in the dipeptide?
- Put a box around the atoms in the amino acids that become the H<sub>2</sub>O molecule produced by the reaction in Model 1.
- A peptide bond is a covalent bond linking two amino acids together in a peptide.
  - Circle the peptide bond in Model 1.
  - Between which two atoms in the dipeptide is the peptide bond located?
  - Between what two functional groups is the peptide bond located?
- There are 22 different amino acids found in nature. Two were shown in Model 1. Additional examples are shown below. With your group, write one or two grammatically correct sentences to describe how these amino acids are similar and how they are different. Use the terms R-group, amine group, and carboxyl group in your description.



# Pogil Lab Answer Key

**Han Yu, Kathryn M. Northcut**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

## **Pogil Lab 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

Inclusive College Classrooms Lauren S. Cardon, Anne-Marie Womack, 2022-12-27 Inclusive College Classrooms provides instructors with research based practices and tools to create an effective and inclusive classroom environment Filling a visible gap in pedagogical training this important book responds to current barriers to inclusion in higher education by helping instructors improve the methods they are already using and identify new methods that could enhance their courses The inclusive approach in this book is informed by critical pedagogy universal design for learning and intersectional social justice pedagogies The authors identify practices in education that exclude historically marginalized

groups and outline teaching strategies that can create more inclusive classrooms where all students can feel heard and represented This timely volume is packed full of hundreds of example lessons from across a range of disciplines tips for moving classes online questions to generate dialogue about various methods and appendices on lesson planning With this book in hand instructors can continually adapt and revise their pedagogy to be more inclusive and effective

**Teaching at Its Best** Linda B. Nilson, 2010-04-20 Teaching at Its Best This third edition of the best selling handbook offers faculty at all levels an essential toolbox of hundreds of practical teaching techniques formats classroom activities and exercises all of which can be implemented immediately This thoroughly revised edition includes the newest portrait of the Millennial student current research from cognitive psychology a focus on outcomes maps the latest legal options on copyright issues and how to best use new technology including wikis blogs podcasts vodcasts and clickers Entirely new chapters include subjects such as matching teaching methods with learning outcomes inquiry guided learning and using visuals to teach and new sections address Felder and Silverman s Index of Learning Styles SCALE UP classrooms multiple true false test items and much more Praise for the Third Edition of Teaching at Its Best Everyone veterans as well as novices will profit from reading Teaching at Its Best for it provides both theory and practical suggestions for handling all of the problems one encounters in teaching classes varying in size ability and motivation Wilbert McKeachie Department of Psychology University of Michigan and coauthor McKeachie s Teaching Tips This new edition of Dr Nilson s book with its completely updated material and several new topics is an even more powerful collection of ideas and tools than the last What a great resource especially for beginning teachers but also for us veterans L Dee Fink author Creating Significant Learning Experiences This third edition of Teaching at Its Best is successful at weaving the latest research on teaching and learning into what was already a thorough exploration of each topic New information on how we learn how students develop and innovations in instructional strategies complement the solid foundation established in the first two editions Marilla D Svinicki Department of Psychology The University of Texas Austin and coauthor McKeachie s Teaching Tips

**Research and Practice in Chemistry Education** Madeleine Schultz, Siegbert Schmid, Gwendolyn A. Lawrie, 2019-04-06 This book brings together fifteen contributions from presenters at the 25th IUPAC International Conference on Chemistry Education 2018 held in Sydney Written by a highly diverse group of chemistry educators working within different national and institutional contexts with the common goal of improving student learning the book presents research in multiple facets of the cutting edge of chemistry education offering insights into the application of learning theories in chemistry combined with practical experience in implementing teaching strategies The chapters are arranged according to the themes novel pedagogies dynamic teaching environments new approaches in assessment and professional skills each of which is of substantial current interest to the science education communities Providing an overview of contemporary practice this book helps improve student learning outcomes Many of the teaching strategies presented are transferable to other disciplines and are of great interest to the global community of tertiary

chemistry educators as well as readers in the areas of secondary STEM education and other disciplines

**Scientific Communication** Han Yu, Kathryn M. Northcut, 2017-09-18 This book addresses the roles and challenges of people who communicate science who work with scientists and who teach STEM majors how to write In terms of practice and theory chapters address themes encountered by scientists and communicators including ethical challenges visual displays and communication with publics as well as changed and changing contexts and genres The pedagogy section covers topics important to instructors everyday teaching as well as longer term curricular development Chapters address delivery of rhetorically informed instruction communication from experts to the publics writing assessment online teaching and communication intensive pedagogies and curricula The Open Access version of this book available at <http://www.tandfebooks.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

**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

**Workbook Lab Manual W/Answer Key** Cummings, 1998-09-01 Physical Science Lab Manual Answer Key, 2006-02-23 Help students explore and understand the world around them With the full color Physical Science text students learn the properties of matter elements compounds electricity and sound and light Students reading significantly below grade level gain practice in working with data and sharpen their abilities to infer classify and theorize Lexile Level 840 Reading Level 3.4 Interest Level 6.12

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