

# Science Research Rubric High School

The White Giraffe Lauren St John 2010-05-14 The first book in the heart-warming White Giraffe series by Lauren St John, featuring the African adventures of Martine and her magical white giraffe. When tragedy strikes on a winter's night in England, Martine is sent to live with her grandmother on a game reserve in South Africa. Her wild, beautiful new home is riddled with secrets, but lonely Martine finds comfort in the legend of a white giraffe and in mysterious Grace, who believes Martine has a powerful gift. Defying her grandmother by entering the reserve alone, Martine is plunged into a world of danger, mystery and adventure. Who can she trust? And how far will she go to save the only friend she has ever known?

**Information Literacy Assessment in K-12 Settings** Lesley S. J. Farmer 2008 This work helps library educators address information literacy assessment issues systematically within their own settings. Global trends and cultural contexts are duly noted in exploring assessment processes and use, as well as in analyzing and categorizing existing assessment instruments.

STEM Student Research Handbook Darci J. Harland 2011 A comprehensive resource for high school teachers and students, STEM Student Research Handbook outlines the various stages of large-scale research projects, enabling teachers to coach their students through the research process.

**From Standards to Rubrics in Six Steps** Kay Burke 2010-10-18 Practical tools for translating standards to rubrics and ensuring high student achievement! Burke's six-step process helps educators create tasks that promote learning for all students and write rubrics linked straight to the requirements of state standards. Featuring templates and sample tasks, rubrics, and units, this updated bestseller shows educators how to create more complex performance tasks, work in grade-level or vertical teams, and: Apply the six-step process to link teaching and assessment to standards Build their own tasks, checklists, and rubrics Differentiate for special needs within standards-linked tasks Share checklists and rubrics with students for ongoing formative assessment and self-assessment

**Investigative Science Learning Environment** Eugenia Etkina 2019-11-15 The goal of this book is to introduce a reader to a new philosophy of teaching and learning physics - Investigative Science Learning Environment, or ISLE (pronounced as a small island). ISLE is an example of an "intentional" approach to curriculum design and learning activities (MacMillan and Garrison 1988 A Logical Theory of Teaching: Erotetics and Intentionality). Intentionality means that the process through which the learning occurs is as crucial for learning as the final outcome or learned content. In ISLE, the process through which students learn mirrors the practice of physics.

Assessing Disciplinary Writing in Both Research and Practice Wright, Katherine Landau 2023-08-01 Assessing Disciplinary Writing in Both Research and Practice tackles the challenge of measuring writing skills in specific content areas, which is crucial for preparing students to communicate as field experts and for their future careers. Edited by Katherine Wright, Associate Professor of Literacy and Language at Boise State University, and Tracey Hodges, Founder and Lead Consultant of The Empowering Advocate, this book provides solutions by bringing together validated measures and practical assessment strategies that can be used in both research and instruction. The book's theoretical foundations cover multimodal disciplinary writing, assessing disciplinary writing versus content-area writing, and using assessment as a tool for disciplinary writing instruction. Practical methods for assessing writing in social studies, science, mathematics, English and language arts, and other genres at the elementary, middle, and high school levels are included, as well as assessment strategies for specific populations of students such as undergraduate students, English learners, gifted and talented students, special needs students, and incarcerated students. This highly valued reference is essential for academic scholars, K12 teachers, and educational researchers who want to improve writing instruction and research in content- and discipline-specific areas. By providing validated measures and methods for assessing disciplinary writing, this edited book helps bridge the gap between research and practice and enables practitioners to better measure student growth and improve writing instruction. This publication is the first step towards advancing research and improving writing instruction in content- and

discipline-specific areas.

Elementary science -6 shining 2019-10-02

*Assessment in Science* Maureen McMahon 2006 If you want to learn about the latest research on assessment techniques that really work, the ideal sourcebook is right here in your hands. Assessment in Science is a collection of up-to-date reports by authors who are practicing K-16 classroom teachers and university-based educators and researchers. *Inside the black box* Paul Black 1998 Offers practical advice on using and improving assessment for learning in the classroom.

Handbook of Research on Tools for Teaching Computational Thinking in P-12 Education Kalogiannakis, Michail 2020-06-26 While the growth of computational thinking has brought new awareness to the importance of computing education, it has also created new challenges. Many educational initiatives focus solely on the programming aspects, such as variables, loops, conditionals, parallelism, operators, and data handling, divorcing computing from real-world contexts and applications. This decontextualization threatens to make learners believe that they do not need to learn computing, as they cannot envision a future in which they will need to use it, just as many see math and physics education as unnecessary. The Handbook of Research on Tools for Teaching Computational Thinking in P-12 Education is a cutting-edge research publication that examines the implementation of computational thinking into school curriculum in order to develop creative problem-solving skills and to build a computational identity which will allow for future STEM growth. Moreover, the book advocates for a new approach to computing education that argues that while learning about computing, young people should also have opportunities to create with computing, which will have a direct impact on their lives and their communities. Featuring a wide range of topics such as assessment, digital teaching, and educational robotics, this book is ideal for academicians, instructional designers, teachers, education professionals, administrators, researchers, and students.

**The Art and Science of Teaching** Robert J. Marzano 2007 Presents a model for ensuring quality teaching that balances the necessity of research-based data with the equally vital need to understand the strengths and weaknesses of individual students.

**Scientific Research in Education** National Research Council 2002-03-28 Researchers, historians, and philosophers of science have debated the nature of scientific research in education for more than 100 years. Recent enthusiasm for "evidence-based" policy and practice in education—now codified in the federal law that authorizes the bulk of elementary and secondary education programs—have brought a new sense of urgency to understanding the ways in which the basic tenets of science manifest in the study of teaching, learning, and schooling. Scientific Research in Education describes the similarities and differences between scientific inquiry in education and scientific inquiry in other fields and disciplines and provides a number of examples to illustrate these ideas. Its main argument is that all scientific endeavors share a common set of principles, and that each field—“including education research”—develops a specialization that accounts for the particulars of what is being studied. The book also provides suggestions for how the federal government can best support high-quality scientific research in education.

Long-term Research and Development in Science Education Avi Hofstein 2021-10-25 The book consists of 16 chapters and 2 commentaries describing long term R&D projects in science and mathematics education conducted in the Department of Science Teaching, The Weizmann Institute of Science. Almost all the chapters describe long-term projects, some over the period of 50 years.

**Scoring Rubrics in the Classroom** Judith Arter 2001 A practical guide to more effective assessment for improved student learning Learn how to be more consistent in judging student performance, and help your students become more effective at assessing their own learning This book o

**How to Create and Use Rubrics for Formative Assessment and Grading** Susan M. Brookhart 2013 What is a rubric? A rubric is a coherent set of criteria for student work that describes levels of performance quality. Sounds simple enough, right? Unfortunately, rubrics are commonly misunderstood and misused. The good news is that when rubrics are created and used correctly, they are strong tools that support and enhance classroom instruction and student learning. In this

comprehensive guide, author Susan M. Brookhart identifies two essential components of effective rubrics: (1) criteria that relate to the learning (not the “tasks”) that students are being asked to demonstrate and (2) clear descriptions of performance across a continuum of quality. She outlines the difference between various kinds of rubrics (for example, general versus task-specific, and analytic versus holistic), explains when using each type of rubric is appropriate, and highlights examples from all grade levels and assorted content areas. In addition, Brookhart addresses\* Common misconceptions about rubrics;\* Important differences between rubrics and other assessment tools such as checklists and rating scales, and when such alternatives can be useful; and\* How to use rubrics for formative assessment and grading, including standards-based grading and report card grades. Intended for educators who are already familiar with rubrics as well as those who are not, this book is a complete resource for writing effective rubrics and for choosing wisely from among the many rubrics that are available on the Internet and from other sources. And it makes the case that rubrics, when used appropriately, can improve outcomes by helping teachers teach and helping students learn.

**Knowing What Students Know** National Research Council 2001-10-27 Education is a hot topic. From the stage of presidential debates to tonight's dinner table, it is an issue that most Americans are deeply concerned about. While there are many strategies for improving the educational process, we need a way to find out what works and what doesn't work as well. Educational assessment seeks to determine just how well students are learning and is an integral part of our quest for improved education. The nation is pinning greater expectations on educational assessment than ever before. We look to these assessment tools when documenting whether students and institutions are truly meeting education goals. But we must stop and ask a crucial question: What kind of assessment is most effective? At a time when traditional testing is subject to increasing criticism, research suggests that new, exciting approaches to assessment may be on the horizon. Advances in the sciences of how people learn and how to measure such learning offer the hope of developing new kinds of assessments—assessments that help students succeed in school by making as clear as possible the nature of their accomplishments and the progress of their learning. *Knowing What Students Know* essentially explains how expanding knowledge in the scientific fields of human learning and educational measurement can form the foundations of an improved approach to assessment. These advances suggest ways that the targets of assessment—what students know and how well they know it—as well as the methods used to make inferences about student learning can be made more valid and instructionally useful. Principles for designing and using these new kinds of assessments are presented, and examples are used to illustrate the principles. Implications for policy, practice, and research are also explored. With the promise of a productive research-based approach to assessment of student learning, *Knowing What Students Know* will be important to education administrators, assessment designers, teachers and teacher educators, and education advocates.

*Assessing Student Learning* Linda Suskie 2010-07-30 The first edition of *Assessing Student Learning* has become the standard reference for college faculty and administrators who are charged with the task of assessing student learning within their institutions. The second edition of this landmark book offers the same practical guidance and is designed to meet ever-increasing demands for improvement and accountability. This edition includes expanded coverage of vital assessment topics such as promoting an assessment culture, characteristics of good assessment, audiences for assessment, organizing and coordinating assessment, assessing attitudes and values, setting benchmarks and standards, and using results to inform and improve teaching, learning, planning, and decision making.

**Next Generation Science Standards** NGSS Lead States 2013-08-29 Next Generation Science Standards identifies the science all K-12 students should know. These new standards are based on the National Research Council's *A Framework for K-12 Science Education*. The National Research Council, the National Science Teachers Association, the American Association for the Advancement of Science, and Achieve have partnered to create standards through a collaborative state-led process. The standards are rich in content and practice and arranged in a coherent manner across disciplines and grades to provide all students an internationally benchmarked science education. The print version of Next Generation Science Standards complements the [nextgenscience.org](http://nextgenscience.org) website and: Provides an authoritative offline reference to the standards when creating lesson plans Arranged by grade level and by core

discipline, making information quick and easy to find Printed in full color with a lay-flat spiral binding Allows for bookmarking, highlighting, and annotating

**A Framework for K-12 Science Education** National Research Council 2012-02-28 Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, *A Framework for K-12 Science Education* proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. *A Framework for K-12 Science Education* outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. *A Framework for K-12 Science Education* is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

*Guide to Teaching Computer Science* Orit Hazzan 2015-01-07 This textbook presents both a conceptual framework and detailed implementation guidelines for computer science (CS) teaching. Updated with the latest teaching approaches and trends, and expanded with new learning activities, the content of this new edition is clearly written and structured to be applicable to all levels of CS education and for any teaching organization. Features: provides 110 detailed learning activities; reviews curriculum and cross-curriculum topics in CS; explores the benefits of CS education research; describes strategies for cultivating problem-solving skills, for assessing learning processes, and for dealing with pupils' misunderstandings; proposes active-learning-based classroom teaching methods, including lab-based teaching; discusses various types of questions that a CS instructor or trainer can use for a range of teaching situations; investigates thoroughly issues of lesson planning and course design; examines the first field teaching experiences gained by CS teachers.

**Rubrics for Assessing Student Achievement in Science Grades K-12** Hays B. Lantz 2004-02-06 Foreword by Jay McTighe This concise handbook offers over 100 ready-to-use performance lists, holistic rubrics, and analytic rubrics appropriate for K-12 science classroom programs. *Teaching High School Science Through Inquiry and Argumentation* Douglas Llewellyn 2013 For Grades 9-12, this new edition covers assessment, questioning techniques to promote learning, new approaches to traditional labs, and activities that emphasize making claims and citing evidence.

**Famous Inventors & Inventions** Speedy Publishing 2014-09-30 Famous inventors and the inventions they develop is a fascinating area of historical study that is usually far too advanced for young children. However, a *Famous Inventors & Inventions* Picture Book breaks that information down in a way that is interesting and engaging to young boys and girls. Instead of pages and pages of text that makes no sense to them, children can see a picture of the inventor alongside the invention they created. This helps to begin laying the foundation for this knowledge in children at a young age and may even spark their interest and imagination in this area.

**How to Assess Authentic Learning** Kay Burke 2009-10-07 Create assessments that meet state standards and target students' learning needs! In this revised edition of her bestseller, Kay Burke provides a wide range of easy-to-implement alternative assessments that address today's accountability requirements. Designed for use across all content

areas, these formative assessments are rooted in the language of state standards and emphasize differentiating instruction to meet students' diverse learning needs. Updated research and examples help K-12 teachers: Build Response to Intervention checklists for struggling students Develop unit plans using differentiated learning and assessment strategies Create portfolios that emphasize metacognition Design performance tasks that motivate and engage students Construct rubrics that describe indicators of quality work Create tests that focus on higher-order thinking skills

### **Educational Research and Innovation Fostering Students'**

**Creativity and Critical Thinking What it Means in School** Vincent-Lancrin Stéphan 2019-09-24 Creativity and critical thinking are key skills for complex, globalised and increasingly digitalised economies and societies. While teachers and education policy makers consider creativity and critical thinking as important learning goals, it is still unclear to many what it means to develop these skills in a school setting. To make it more visible and tangible to practitioners, the OECD worked with networks of schools and teachers in 11 countries to develop and trial a set of pedagogical resources that exemplify what it means to teach, learn and make progress in creativity and critical thinking in primary and secondary education.

**Personalizing the High School Experience for Each Student** Joseph DiMartino 2008-04-21 Why is it that so many students see high school as a prison sentence to be endured rather than a time to learn and grow? According to DiMartino and Clark, many high school students feel invisible and isolated. They don't see the relevance of what they are being taught, and they don't see how their classes are preparing them for success as adults. This book offers a new vision for high schools--a vision that puts students at the center of their learning. Personalized high schools engage students by allowing them to plan and develop their own pathways through school based on their talents, interests, and aspirations. The book describes six promising practices that are emerging in high schools: \* Guided Personalized Learning. Teachers act as advisors to small groups of students over two to six years to review personal learning plans, assist in course selection, and discover opportunities in the community. \* Personal Learning Plans. Students meet regularly with parents, advisors, mentors, and peers to review progress and plan next steps. \* Personalized Teaching. Teachers differentiate instruction to allow students to explore different aspects of the subject and produce authentic work that shows their understanding. \* Community-Based Learning. Active involvement in the community helps clarify a student's purpose and defines the steps necessary to achieve successful adult roles. \* Personalized Assessment. Rather than grades and tests scores, the work itself--portfolios, exhibitions, and student-led conferences--shows what the students have learned. \* Personalizing school systems. Some schools are moving past the Carnegie unit and focusing instead on helping each student achieve specified competencies, often through learning experiences that the students themselves have helped design. These six practices can improve learning for all students by engaging them in shaping their own high school experience and discovering how the academic skills they learn in school can have meaning in the world they will negotiate as adults.

**Writing a Research Paper in Political Science** Lisa A. Baglione 2018-12-31 Even students capable of writing excellent essays still find their first major political science research paper an intimidating experience. Crafting the right research question, finding good sources, properly summarizing them, operationalizing concepts and designing good tests for their hypotheses, presenting and analyzing quantitative as well as qualitative data are all tough-going without a great deal of guidance and encouragement. Writing a Research Paper in Political Science breaks down the research paper into its constituent parts and shows students what they need to do at each stage to successfully complete each component until the paper is finished. Practical summaries, recipes for success, worksheets, exercises, and a series of handy checklists make this a must-have supplement for any writing-intensive political science course.

**Scientific Argumentation in Biology** Victor Sampson 2013 Develop your high school students' understanding of argumentation and evidence-based reasoning with this comprehensive book. Like three guides in one 'Scientific Argumentation in Biology' combines theory, practice, and biology content.

**Assessment, Learning and Judgement in Higher Education** Gordon Joughin 2008-12-11 There has been a remarkable growth of interest in the assessment of student learning and its relation to the process of learning in higher education over the past ten years. This interest has

been expressed in various ways - through large scale research projects, international conferences, the development of principles of assessment that supports learning, a growing awareness of the role of feedback as an integral part of the learning process, and the publication of exemplary assessment practices. At the same time, more limited attention has been given to the underlying nature of assessment, to the concerns that arise when assessment is construed as a measurement process, and to the role of judgement in evaluating the quality of students' work. It is now timely to take stock of some of the critical concepts that underpin our understanding of the multifarious relationships between assessment and learning, and to explicate the nature of assessment as judgement. Despite the recent growth in interest noted above, assessment in higher education remains under-conceptualized. This book seeks to make a significant contribution to conceptualizing key aspects of assessment, learning and judgement.

**From 'Science in the Making' to Understanding the Nature of Science** Mansoor Niaz 2012-02-06 The Nature of Science is highly topical among science teacher educators and researchers. Increasingly, it is a mandated topic in state curriculum documents. This book draws together recent research on Nature of Science studies within a historical and philosophical framework suitable for students and teacher educators. Traditional science curricula and textbooks present science as a finished product. Taking a different approach, this book provides a glimpse of "science in the making" — scientific practice imbued with arguments, controversies, and competition among rival theories and explanations. Teaching about "science in the making" is a rich source of motivating students to engage creatively with the science curriculum. Readers are introduced to "science in the making" through discussion and analysis of a wide range of historical episodes from the early 19th century to early 21st century. Recent cutting-edge research is presented to provide insight into the dynamics of scientific progress. More than 90 studies from major science education journals, related to nature of science are reviewed. A theoretical framework, field tested with in-service science teachers, is developed for moving from 'science in the making' to understanding the Nature of Science.

**Science and Engineering for Grades 6-12** National Academies of Sciences, Engineering, and Medicine 2019-02-12 It is essential for today's students to learn about science and engineering in order to make sense of the world around them and participate as informed members of a democratic society. The skills and ways of thinking that are developed and honed through engaging in scientific and engineering endeavors can be used to engage with evidence in making personal decisions, to participate responsibly in civic life, and to improve and maintain the health of the environment, as well as to prepare for careers that use science and technology. The majority of Americans learn most of what they know about science and engineering as middle and high school students. During these years of rapid change for students' knowledge, attitudes, and interests, they can be engaged in learning science and engineering through schoolwork that piques their curiosity about the phenomena around them in ways that are relevant to their local surroundings and to their culture. Many decades of education research provide strong evidence for effective practices in teaching and learning of science and engineering. One of the effective practices that helps students learn is to engage in science investigation and engineering design. Broad implementation of science investigation and engineering design and other evidence-based practices in middle and high schools can help address present-day and future national challenges, including broadening access to science and engineering for communities who have traditionally been underrepresented and improving students' educational and life experiences. Science and Engineering for Grades 6-12:

**Investigation and Design at the Center revisits America's Lab Report: Investigations in High School Science** in order to consider its discussion of laboratory experiences and teacher and school readiness in an updated context. It considers how to engage today's middle and high school students in doing science and engineering through an analysis of evidence and examples. This report provides guidance for teachers, administrators, creators of instructional resources, and leaders in teacher professional learning on how to support students as they make sense of phenomena, gather and analyze data/information, construct explanations and design solutions, and communicate reasoning to self and others during science investigation and engineering design. It also provides guidance to help educators get started with designing, implementing, and assessing investigation and design.

**Integrating Science with Mathematics & Literacy** Elizabeth Hammerman 2014-12-30 Challenge and expand students' abilities with

multidimensional performance tasks! In this invaluable resource, science educators Elizabeth Hammerman and Diann Musial define a new vision for integrating science, mathematics, and language arts with instruction and assessment and encourage teachers to develop reliable processes for assessing both their teaching practice and student learning. This revised edition offers more than 20 performance assessments that promote student engagement. Each clearly articulated task correlates with current research and focuses on learning indicators linked to state and national standards. The assessments also model inquiry-based science in ways proven to increase student achievement, allowing learners to demonstrate their understanding of embedded concepts through exploration, inquiry, and application. Teachers can follow detailed guidelines to develop customized assessments or use the assessments already included to evaluate learners':

- Understanding of content and processes
- Development of complex thinking skills
- Aptitude for science
- Ability to make real-world connections

Featuring learning logs, portfolios, peer interview strategies, and sample teacher-student interviews, *Integrating Science With Mathematics and Literacy*, Second Edition, helps educators obtain accurate performance data while giving students opportunities to examine the world in exciting ways.

**NGSS for All Students** Okhee Lee 2015 It's challenging to teach science well to all students while connecting your lessons to the Next Generation Science Standards (NGSS). This unique book portrays real teaching scenarios written by the teachers on the NGSS Diversity and Equity Team. The seven authentic case studies vividly illustrate research- and standards-based classroom strategies you can use to engage seven diverse demographic groups: - Economically disadvantaged students - Students from major racial and ethnic groups - Students with disabilities - English language learners - Girls - Students in alternative education - Gifted and talented students Supplementing the case studies are additional chapters to deepen your understanding of the strategies and make what you learn more usable. These chapters address how to design units with the NGSS and diversity in mind, apply a rubric to improve your teaching using the NGSS with diverse student groups, and use the case studies in teacher study groups. Furthermore, leaders of the NGSS--including Helen Quinn, Stephen Pruitt, André s Henri quez, and Joe Krajcik-- offer their insights and commitments to diversity and equity. *NGSS for All Students* will help you make the instructional shifts necessary to prepare all your students for college and careers.

**Notebook Know-how** Aimee Elizabeth Buckner 2005 Presents tips for elementary and middle school teachers on how to use writing notebooks to help students develop skills and habits associated with good writing.

**Science as Inquiry in the Secondary Setting** Julie Luft 2008 It can be a tough thing to admit: Despite hearing so much about the importance of inquiry-based science education, you may not be exactly sure what it is, not to mention how to do it. But now this engaging new book takes the intimidation out of inquiry. *Science as Inquiry in the Secondary Setting* gives you an overview of what inquiry can be like in middle and high school and explores how to incorporate more inquiry-centered practices into your own teaching. In 11 concise chapters, leading researchers raise and resolve such key questions as: What is Inquiry? What does inquiry look like in speccific classes, such as the Earth science lab or the chemitry lab? What are the basic features of inquiry instruction? How do you assess science as inquiry? *Science as Inquiry* was created to fill a vacuum. No other book serves as such a compact, easy-to-understand orientation to inquiry. It's ideal for guiding discussion, fostering reflection, and helping you enhance your own classroom practices. As chapter author Mark Windschitl writes, "The aim of doing more authrntic science in schools is not to mimic scientists, but to develop the depth of content knowledge, the habits of mind, and the critical reasoning skills that are so crucial to basic science literacy." This volume guides you to find new ways of helping students further along the path to science literacy.

**Repositioning Pedagogical Content Knowledge in Teachers' Knowledge for Teaching Science** Anne Hume 2019-01-28 This book enhances readers' understanding of science teachers' professional knowledge, and illustrates how the Pedagogical Content Knowledge research agenda can make a difference in teachers' practices and how students learn science. Importantly, it offers an updated international perspective on the evolving nature of Pedagogical Content Knowledge and how it is shaping research and teacher education agendas for science teaching. The first few chapters background and introduce a new model known as the Refined Consensus Model (RCM) of Pedagogical Content Knowledge (PCK) in science education, and clarify and demonstrate its use in research and teacher education and practice. Subsequent chapters show

how this new consensus model of PCK in science education is strongly connected with empirical data of varying nature, contains a tailored language to describe the nature of PCK in science education, and can be used as a framework for illuminating past studies and informing the design of future PCK studies in science education. By presenting and discussing the RCM of PCK within a variety of science education contexts, the book makes the model significantly more applicable to teachers' work.

**Improving Learning Through Assessment Rubrics: Student Awareness of What and How They Learn** Gonsalves, Chahna 2023-08-14 Assessment by rubrics has emerged as a tool with great potential to guide successful student learning from a competency-based approach. Rubrics, as instruments that make it possible to share the criteria for carrying out learning and assessment tasks with students, are excellent roadmaps for student learning largely because they allow students to know what they are expected to do and what they are expected to achieve by carrying out the learning tasks. *Improving Learning Through Assessment Rubrics: Student Awareness of What and How They Learn* contributes to the improvement of what is being evaluated by identifying the strengths as well as the weaknesses of the didactic use of rubrics in the assessment of university learning. The book also provides a set of theoretical issues, methodological elements, and practical resources for the assessment of university learning using rubrics. Covering topics such as active learning, self-assessment, and teacher identity, this reference work is ideal for administrators, policymakers, researchers, scholars, academicians, practitioners, educators, and students.

**Introduction to Rubrics** Dannelle D. Stevens 2023-07-03 This new edition retains the appeal, clarity and practicality that made the first so successful, and continues to provide a fundamental introduction to the principles and purposes of rubrics, with guidance on how to construct them, use them to align course content to learning outcomes, and apply them in a wide variety of courses, and to all forms of assignment. Reflecting developments since publication of the first edition, the authors have extended coverage to include:\* Expanded discussion on use of rubrics for grading\* Grading on-line with rubrics\* Wider coverage of rubric types (e.g., holistic, rating scales)\* Rubric construction in student affairs\* Pros and cons of working with "ready-made" rubrics\* Using rubrics to improve your teaching, and for SoTL\* Use of rubrics in program assessment (case study)\* Application of rubrics in the arts, for study abroad, service learning and students' independent learning \* Updated literature review

**Newly Hired Teachers of Science** Julie A. Luft 2015-12-09 Supporting newly hired science teachers has taken on an increased importance in our schools. This book shares the most current information about the status of newly hired science teachers, different ways in which to support newly hired science teachers, and different research approaches that can provide new information about this group of teachers. Chapters in the book are written by those who study the status of beginning science teachers, mentor new teachers, develop induction programs, and research the development of new science teachers. *Newly Hired Teachers of Science* is for administrators who have new science teachers in their schools and districts, professionals who create science teacher induction programs, mentors who work closely with new science teachers, educational researchers interested in studying new science teachers, and even new science teachers. This is a comprehensive discussion about new science teachers that will be a guiding document for years to come.

**The Knowledge Gap** Natalie Wexler 2020-08-04 The untold story of the root cause of America's education crisis--and the seemingly endless cycle of multigenerational poverty. It was only after years within the education reform movement that Natalie Wexler stumbled across a hidden explanation for our country's frustrating lack of progress when it comes to providing every child with a quality education. The problem wasn't one of the usual scapegoats: lazy teachers, shoddy facilities, lack of accountability. It was something no one was talking about: the elementary school curriculum's intense focus on decontextualized reading comprehension "skills" at the expense of actual knowledge. In the tradition of Dale Russakoff's *The Prize* and Dana Goldstein's *The Teacher Wars*, Wexler brings together history, research, and compelling characters to pull back the curtain on this fundamental flaw in our education system--one that fellow reformers, journalists, and policymakers have long overlooked, and of which the general public, including many parents, remains unaware. But *The Knowledge Gap* isn't just a story of what schools have gotten so wrong--it also follows innovative educators who are in the process of shedding their deeply

ingrained habits, and describes the rewards that have come along: students who are not only excited to learn but are also acquiring the knowledge and vocabulary that will enable them to succeed. If we truly want to fix our education system and unlock the potential of our neediest children, we have no choice but to pay attention.

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