

Rubric For Journal Writing Middle School

This text describes how to create a programme that addresses the specific needs and capabilities of middle school students, while helping them through the transition from childhood to young adulthood. This edition is fully updated and revised.

This book offers a new, research-based approach to STEM education in early, elementary, and middle years of schooling, concentrating on building teacher agency and integrated approaches to teaching and learning in High Possibility STEM Classrooms. Author Jane Hunter presents a globally oriented, contemporary framework for powerful Integrated STEM, based on mixed-methods research data from three studies conducted in 14 schools in language-diverse, disadvantaged, and urbanized communities in Australia. Theory, creativity, life preparation, public learning, and contextual accommodations are all utilized to help educators create hands-on, inquiry-led, and project-based approaches to STEM education in the classroom. A set of highly accessible case studies is offered that places pedagogy at the center of practice – an approach valuable for researchers, school leaders, and teachers alike. Ultimately, this text responds to the call for examples of what successful Integrated STEM teaching and learning looks like in schools. The book concludes with an evidence-based blueprint for preparing for less siloed and more transdisciplinary approaches to education in schools. Hunter argues not only for High Possibility STEM Classrooms but for High Possibility STEM Schools, enriching the dialogue around the future directions of STEM, STEAM, middle leadership, technological literacies, and assessment within contemporary classrooms.

Until recently, youth have become the great absence regarding matters of citizenship, justice, and democracy. Rarely are young people taken up with the important discourses of freedom and citizenship, especially discourses that transcend national boundaries and academic disciplines. Richard Mitchell and Shannon Moore have put together a brilliant book that not only fills this void, but makes one of the most powerful cases I have read for addressing young people in terms that not only allow them to talk back, be heard, but also to enjoy those rights and freedoms that give democracy a real claim on its ideals and promises. Every educator, parent, student, and all those young people now making their voices heard all over the world should read this book. Henry A. Giroux This diverse collection will appeal to students in senior undergraduate and graduate courses looking into the new cosmopolitanism in social policy, citizenship or cultural studies, in child and youth studies, and in post-colonial approaches to education, sociology, and political science.

Offering fresh alternatives to common instructional practices that fail to get results, this accessible, highly practical guide highlights ways to motivate middle school students while enhancing content-area learning. Each chapter features an enlightening case study of a teacher whose current strategies are not supported by research; describes effective instructional alternatives, illustrated with concrete examples; and lists online resources and lesson examples. Emphasis is given to supporting critical engagement with texts and drawing on technology and new literacies. The book covers specific content areas/including science, social studies, math, and literature?as well as ways to teach oral literacy and writing across the curriculum. ?

A Standards-based Approach for Grades 5-8

SAGE Handbook of Research on Classroom Assessment

How to Teach Nature Journaling

Notebook Know-how

Writing Strategies for Social Studies

Teaching That Supports Engagement and Rigorous Learning

These fun writing exercises will improve students' understanding of the writing process along with their language arts skills. This engaging reinforcement workbook includes reproducible practice and application work pages, evaluation rubrics for teacher and students, student writing prompts, writing skills tests, and an answer key. Unit topics include writing a dialogue journal, descriptive writing, identifying prepositions, writing an autobiography, book reviews, punctuation, function words, and more! Mark Twain Media Publishing Company specializes in providing captivating, supplemental books and decorative resources to complement middle- and upper-grade classrooms. Designed by leading educators, the product line covers a range of subjects including mathematics, sciences, language arts, social studies, history, government, fine arts, and character. Mark Twain Media also provides innovative classroom solutions for bulletin boards and interactive whiteboards. Since 1977, Mark Twain Media has remained a reliable source for a wide variety of engaging classroom resources.

"This eBook features 501 sample writing prompts that are designed to help you improve your writing and gain the necessary writing skills needed to ace essay exams. Build your essay-writing confidence fast with 501 Writing Prompts!" --

Stronger Writing Skills for Teens offers middle and high school teachers strategies, techniques, and materials for teaching adolescent writing. It focuses on quality writing instruction and presents the modes of writing as defined by Common Core State Standards, with strategies, tips, and suggestions for teaching each mode.

Dynamic Physical Education for Secondary School Students (DPE) has been the go-to textbook for preparing future secondary physical educators for more than 30 years. Now in its ninth edition, this trusted resource has been thoroughly updated to maintain its high quality and continue to meet the needs of preservice and in-service teachers in developing curricula that meet SHAPE America physical education standards and grade-level outcomes. DPE offers the best of both worlds: in-depth explorations of critical concepts to provide readers the foundational knowledge they need to teach quality physical education, combined with a host of ready-to-use activities. The result is a resource that will help preservice physical educators feel confident in the class setting from day one. Doctors Timothy Brusseau and Heather Erwin, coauthors for the previous edition, have taken the helm as lead authors this time. Improvements to this new edition include the following: Reorganized chapters that provide a clear, comprehensive description of effective secondary physical education New chapters on supporting and advocating for physical education (including budgeting, fundraising, facilities and equipment, communicating with stakeholders, professional development, and more) and on developing a comprehensive school physical activity program (CSPAP) Updated chapters on assessment and teaching students with disabilities The Dynamic PE ASAP website, which gives teachers access to examples of ready-to-use activities and complete lesson plans, as well as the ability to build their own lesson plans from the provided activities DPE will help current and future educators learn how to promote physical activity throughout the school day and beyond, and they will be able to rely on a vast array of evidence-based activities and instructional strategies to shape and deliver quality physical education programs. The text is organized into four parts, with part I exploring the factors involved in designing a quality physical education program. Part II delves into how to deliver that program—effective instruction, classroom management, assessment and evaluation, inclusion of students with disabilities, and more. In part III, readers investigate administrative issues, including safety and liability, advocacy, and intramurals and sport clubs. Part IV offers strategies, ideas, and examples for a variety of activities and units, including introductory activities, nontraditional activities, and outdoor and adventure activities. This latest edition of DPE features a full-color interior for the first time as well as an improved design. The book provides many features geared to helping readers get the most out of the content: Learning objectives that set the stage for reading the chapter Teaching tips from experienced teachers and teacher educators Review questions to help students learn and prepare for exams Website lists and suggested readings to guide students toward additional helpful content A glossary to help students learn the language of the profession The content is designed to help students prepare for the edTPA, which is required in 18 states for PETE graduates before they can receive their teaching license. DPE comes with an integrated set of instructional tools, including an instructor guide, a test package, and a presentation package with PowerPoint lecture outlines that include key figures and tables from the book. DPE continues to be one of the most widely used and influential secondary physical education texts in the field. It helps readers implement current best practices and equips students with the information they need to create engaging and meaningful PE programs.

Writing Engagement, Grade 8

Science Stories: Science Methods for Elementary and Middle School Teachers

Introduction to Rubrics

Best Practices of Literacy Leaders, Second Edition

Involving Students in the Writing Process

The "Write" Way Mathematics Journal Prompts & More, Algebra II

Assessment in Middle and High School Mathematics Teacher's Guide*Routledge*

SCIENCE STORIES helps preservice and inservice teachers contextualize what it looks like to engage their students in meaningful science experiences. Using narratives about science teaching and learning in real-world classrooms, this text demonstrates learning, important content, and strategies in action.

Author Janice Koch's approach guides teachers in discovering and exploring their scientific selves, enabling them to learn from students' experiences and become effective scientific explorers in their own classrooms. Featuring connections to the Next Generation Science Standards (NGSS), the text empowers teachers to infuse science into their own classrooms by answering such questions as, "Where do I start?" and "How do I use the new standards?" SCIENCE STORIES contains comprehensive chapters on key science disciplinary core ideas, such as life science, physical science, and earth and space science, as well as a chapter that considers student assessment and self-assessment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This resource provides teachers with a step-by-step guide to creating and using rubrics as an instructional tool, with more than 40 sample rubrics for specific literacy skills.

The Sage Handbook of Research on Classroom Assessment provides scholars, professors, graduate students, and other researchers and policy makers in the organizations, agencies, testing companies, and school districts with a comprehensive source of research on all aspects of K-12 classroom assessment. The handbook emphasizes theory, conceptual frameworks, and all varieties of research (quantitative, qualitative, mixed methods) to provide an in-depth understanding of the knowledge base in each area of classroom assessment and how to conduct inquiry in the area. It presents classroom assessment research to convey, in depth, the state of knowledge and understanding that is represented by the research, with particular emphasis on how classroom assessment practices affect student achievement and teacher behavior. Editor James H. McMillan and five Associate Editors bring the best thinking and analysis from leading classroom assessment researchers on the nature of the research, making significant contributions to this prominent and hotly debated topic in education.

An Assessment Tool to Save Grading Time, Convey Effective Feedback, and Promote Student Learning

Real-World Computational Thinking in the K-8 Classroom

Modes, Methods, and Materials That Work

The Complete Guide Grades 3 and Up

Critical Inquiries on the Impact of Rubrics in Education

Based on a True Story

*This new edition relates 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 * Up-dated literature review*

When the Sudanese civil war reaches his village in 1985, 11-year-old Salva becomes separated from his family and must walk with other Dinka tribe members through southern Sudan, Ethiopia and Kenya in search of safe haven. Based on the life of Salva Dut, who, after emigrating to America in 1996, began a project to dig water wells in Sudan. By a Newbery Medal-winning author.

Extending the themes of Contemporary Psychoanalytic Foundations, The Therapeutic Situation in the 21st Century is a systematic reformulation of fundamental psychoanalytic concepts, such as transference, therapeutic action, and the uses of psychotropic drugs, in the light of recent developments in postmodernism, complexity theory, and neuroscience. Loeffert offers formulations of issues not previously considered in any depth by psychoanalysts, such as power relations in the analytic couple, social matrix theory, and narrative theory informed by considerations of archaeology, genealogy, complexity, memory, and recall. He also considers new areas, such as the role of uncertainty and love in the therapeutic situation. This book is part of an ongoing effort to place psychoanalysis in the current century, and looks to outside as well as inside areas of thought to inform how we work and how we think about our work.

Told in letters, poems, text messages, news stories, and comics—a series of documents Nora collects for the Wolf Creek Community Time Capsule Project—Breakout is a thrilling story that will leave readers thinking about who's really living in the places we call home. Nora Tucker is looking forward to summer vacation in Wolf Creek—two months of swimming, popsicles, and brushing up on her journalism skills for the school paper. But when two inmates break out of the town's maximum security prison, everything changes. Doors are locked, helicopters fly over the woods, and police patrol the school grounds. Worst of all, everyone is on edge, and fear brings out the worst in some people Nora has known her whole life. Even if the inmates are caught, she worries that home might never feel the same. A Mighty Girl Best Book of the Year Assessment In Middle and High School Mathematics

Robotics

The Cambridge Handbook of Instructional Feedback

A Guide to Advancing Thinking Through Writing in All Subjects and Grades

The "Write" Way Mathematics Journal Prompts & More, Gr. 7-8 Pre-Algebra

How to Use Reflective Writing for Learning, Teaching, Professional Insight and Positive Change

An AEP Award winner, this resource provides detailed strategies and activities with classroom examples across multiple grade ranges. Learn practical standards-based strategies to help students understand Social Studies content. Specific suggestions for differentiating instruction for English language learners, gifted students, and below-grade-level students are provided. Teacher Resource CD of customizable graphic organizers and other student activities. This resource is correlated to the Common Core State Standards and is aligned to the interdisciplinary themes from the Partnership for 21st Century Skills. 208 pages + CD

"HELPI! My Students Can't Write!" Why You Need a Writing Revolution in Your Classroom and How to Lead It. The Writing Revolution (TWR) provides a clear method of instruction that you can use no matter what subject or grade level you teach. The model, also known as The Hochman Method, has demonstrated, over and over, that it can help specific techniques that match their needs and by providing them with targeted feedback. Insurmountable as the challenges faced by many students may seem, TWR can make a dramatic difference. And the method does more than improve writing skills. It also helps: Boost reading comprehension Improve organizational and study skills Enhance a method of teaching content as it is a method of teaching writing. There's no separate writing block and no separate writing curriculum. Instead, teachers of all subjects adopt the TWR strategies and activities to their current curriculum and weave them into their content instruction. But perhaps what's most revolutionary about TWR is that it breaks the writing process down into manageable chunks and then has students practice the chunks they need repeatedly, while also learning content.

Written explicitly for pre-service social studies teachers, this exciting methods-based text integrates an in-depth look at seven distinct teaching strategies with appropriate management and assessment techniques.

It describes each strategy and clarifies its advantages and drawbacks. Also included is a large sample of classroom-tested examples along with sample student responses. These examples can be used "as is" - or you can customize them for your own class. This book will help prepare your students for standardized tests that include items from the assessment Standards benchmarks established by the NCTM. In addition, an entire chapter is devoted to help teachers use these assessments to arrive at their students' grades.

A Long Walk to Water

Methods, Assessment, and Classroom Management

A Science and Art Manual for Parents, Educators, and Naturalists

An Educator's Guide

Keys to School Improvement

Teaching Secondary and Middle School Mathematics

Expanding on the philosophy and methods of The Laws Guide to Nature Drawing and Journaling, John Muir Laws and Emilee Lygren have developed the first-ever comprehensive book devoted to helping educators use nature journaling as an inspiring teaching tool to engage young people with wild places. In their workshops Laws and Lygren are often asked the how-tos of teaching nature journaling: how to manage student groups in the outdoors, teach drawing skills (especially from those who profess to have none), connect journaling to educational standards, and incorporate journaling into longer lessons. This book puts together curriculum plans, advice, and in-the-field experience so that educators of all stripes can leap into journaling with their students. The approaches are designed to work in a range of ecosystems and settings, and are suitable for classroom teachers, outdoor educators, camp counselors, and homeschooling parents. Full-color illustrations and sample journal pages from notable naturalists show how to put each lesson into practice. Field-tested by over a hundred educators, this book includes dozens of activities that easily support the Common Core and the Next Generation Science Standards—and, just as important, it will show kids and mentors alike how to recognize the wonder and intrigue in their midst.

Spectrum Writing creates student interest and sparks writing creativity! The lessons, perfect for students in grade 6, strengthen writing skills by focusing on sequence of events, comparing and contrasting, point of view, facts and opinions, and more! Each book provides an overview of the writing process, as well as a break down of the essential skills that build good writing. It features easy-to-understand directions, is aligned to national and state standards, and also includes a complete answer key. Today, more than ever, students need to be equipped with the essential skills they need for school achievement and for success on proficiency tests. The Spectrum series has been designed to prepare students with these skills and to enhance student achievement. Developed by experts in the field of education, each title in the Spectrum workbook series offers grade-appropriate instruction and reinforcement in an effective sequence for learning success. Perfect for use at home or in school, and a favorite of parents, homeschoolers, and teachers worldwide, Spectrum is the learning partner students need for complete achievement.

Every teacher seeks to be an effective teacher. Every teacher wants to have a positive, remarkable, and lasting influence on students' lives. But what makes for an effective teacher? What role does teacher preparation play in teacher effectiveness? What do effective teachers do during planning, instruction, and assessment? How do they create a learning environment that engages and supports students? And how do effective teachers interact with their students to promote the best opportunities and results for all? In *Qualities of Effective Teachers*, 3rd edition, James H. Stronge explores these questions and more as he synthesizes the literature on teacher effectiveness. The result? A research-based framework for effective teaching that addresses: Professional knowledge Instructional planning Instructional delivery Assessment Learning environment Professionalism Stronge also examines characteristics of effective teachers of at-risk students and high-ability students. To bridge the gap between research and practice, he includes checklists of skills and positive qualities associated with effective teacher performance as well as red flags that indicate that teachers may not be reaching their full potential in the classroom. This resource is for any educator interested in improving teaching. It offers research-based advice for teachers who wish to improve their own performance, as well guidance for teacher leaders and supervisors, school administrators and department heads, staff development specialists, teacher and administrator educators, human resource specialists, and education policymakers and their staffs. Anyone who has a vested interest in students and their success can gain valuable insight and practical tools to ensure positive outcomes for all students. New to the 3rd edition: Introduction of the Framework for Effective Teaching and its six domains—Professional knowledge; instructional planning; instructional delivery; assessment; learning environment; professionalism Chapter vignettes updated to illustrate the domains of the Framework for Effective Teaching Updated reference charts at the end of chapters, keyed to the subdomains of the Framework for Effective Teaching and expanded to include references for 21 century teachers Twenty-nine sidebars interspersed throughout chapters that provide state-of-the-art supplementary text on effective teaching practices and research findings Updated Teacher Skills Assessment Checklist, keyed to the domains of the Framework for Effective Teaching Updated Part 2 presents positive qualities and red flags associated with effective teachers, keyed to the domains of the Framework for Effective Teaching More than 1,000 entries in the References

"This wonderfully compact introduction to rubrics will serve higher education teachers well [and] when departments or groups of faculty use rubrics as described in this book, they will indeed achieve the 'academic quality' sought today in higher education." – Amy Driscoll, director of Teaching, Learning and Assessment CSU, Monterey Bay. You need rubrics if: You find yourself repeating the same comments on most student papers? You worry that you're grading the latest papers differently from the first? You're concerned about communicating the complexity of a semester-long assignment? You question the consistency of your and your colleagues' grading scales? Grading is taking up far too much of your valuable time?Research shows that rubrics save professors' time while cutting the number and time of appeals from students and parents. Rubrics also help you to give consistent feedback effectively in a variety of diverse contexts. Anyone interested in researching instructional feedback, or providing it in their class or course, will discover why, when, and where instructional feedback is effective and how best to provide it.

acceptable and unacceptable levels of performance for each part.Rubrics can be used to grade any assignment or task: research papers, book reviews, participation in discussions, laboratory work, portfolios, oral presentations, group work, and more.This book defines what rubrics are, and how to construct and use them. It provides a complete introduction for anyone starting out to integrate rubrics in their teaching.The authors go on to describe a variety of processes to construct rubrics, including some which involve student participation. They demonstrate how interactive rubrics – a process involving assessors and the assessed in defining the criteria for an assignment or objective – can be effective, not only in involving students more actively in their learning, but in establishing consistent standards of assessment at the program, department and campus level. "A valuable resource for the new user in a content discipline and belongs in every faculty developer's library." – Edward Nuher, Director, Center for Teaching and Learning, Idaho State University

Instructional Strategies for Middle and Secondary Social Studies The "Write" Way Mathematics Journal Prompts & More, Gr. 5-6 Teaching Middle School Physical Education Rubric Nation Designing and Using Rubrics for Reading and Language Arts, K-6 Writing, Grade 6

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.

** By the authors of the acclaimed *Introduction to Rubrics* ** Major growth of interest in keeping journals or diaries for personal reflection and growth; and as a teaching tool ** Will appeal to college faculty, administrators and teachers One of the most powerful ways to learn, reflect and make sense of our lives is through journal keeping. This book presents the potential uses and benefits of journals for personal and professional development—particularly for those in academic life; and demonstrates journals' potential to foster college students' learning, fluency and voice, and creative thinking. In professional life, a journal helps to organize, prioritize and address the many expectations of a faculty member's or administrator's roles. Journals are effective for developing time management skills, building problem-solving skills, fostering insight, and decreasing stress. Both writing and rereading journal entries allow the journal keeper to document thinking; to track changes and review observations; and to examine assumptions and so gain fresh perspectives and insights over past events. The authors present the background to help readers make an informed decision about the value of journals and to determine whether journals will fit appropriately with their teaching objectives or help manage their personal and professional lives. They offer insights and advice on selecting the format or formats and techniques most appropriate for the reader's purposes.

This authoritative text and practitioner resource has now been extensively revised and expanded with 70% new material covering new topics and standards in literacy leadership. Prominent experts present research-based methods for improving instruction, assessment, and professional learning experiences in PreK-12. The distinct roles of teachers, reading/literacy specialists, literacy coaches, special educators, and principals are explored, with an emphasis on fostering a culture of collaboration. Chapters highlight the standards that apply to each component of a schoolwide literacy program and timely feedback on students and professional learning. Pedagogical features include guiding questions, case examples, vignettes, engagement activities, and annotated resources for further learning. New to This Edition *Now copublished with the International Literacy Association (ILA) and grounded in ILA's updated Standards 2017; expanded grade range includes PreK. *Chapters on new topics: writing instruction, sustaining schoolwide improvements, and collaborative leadership. *New chapters on core topics: the principal's role, assessment, middle and high school literacy programs, special education, and culturally responsive instruction. *Vignettes from leaders in diverse roles, "Think About This" questions for discussion/reflection, and end-of-chapter annotated resources.

Teaching Secondary and Middle School Mathematics combines the latest developments in research, technology, and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics. The book explores the mathematics teaching profession by examining the processes of planning, teaching, and assessing student progress through practical examples and recommendations. Beginning with an examination of what it means to teach and learn mathematics, the reader is led through the essential components of teaching, concluding with an examination of how teachers continue with professional development throughout their careers. Hundreds of citations are used to support the ideas presented in the text, and specific websites and other resources are presented for future study by the reader. Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms. The sixth edition has been updated and expanded with particular emphasis on the latest technology, resources, and standards. The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation, as well as how to manage a classroom for success. Features include: The entire text has been reorganized so that assessment takes a more central role in planning and teaching. Unit 3 (of 5) now addresses the use of summative and formative assessments to inform classroom teaching practices. ? A new feature, "Links and Resources," has been added to each of the 13 chapters. While the book includes a substantial listing of citations and resources after the chapters, five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic. ? Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research, materials, and resources that support the teaching of mathematics. ? A Quick Reference Guide has been added to the front of the book to assist the reader in identifying the most useful chapter features by topic. ? A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure, as well as a discussion of practical suggestions for success in methods and student teaching experiences. ? Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers, including apps that can be run on handheld, personal devices. An updated Instructor's Manual features a test bank, sample classroom activities, Powerpoint slides, chapter summaries, and learning outcomes for each chapter, and can be accessed by instructors online at www.routledge.com/9780367146511

The Writing Revolution

Resources in Education

6 + 1 Traits of Writing

The "Write" Way Mathematics Journal Prompts & More, Gr. 3-4

Exemplary Instruction in the Middle Grades

Strategies for the Writer's Notebook

This book brings together leading scholars from around the world to provide their most influential thinking on instructional feedback. The chapters range from academic, in-depth reviews of the research on instructional feedback to a case study on how feedback altered the life-course of one author. Furthermore, it features critical subject areas - including mathematics, science, music, and even animal training - and focuses on working at various developmental levels of learners. The affective, non-cognitive aspects of feedback are also targeted, such as how learners react emotionally to receiving feedback. The exploration of the theoretical underpinnings of how feedback changes the course of instruction leads to practical advice on how to give such feedback effectively in a variety of diverse contexts. Anyone interested in researching instructional feedback, or providing it in their class or course, will discover why, when, and where instructional feedback is effective and how best to provide it.

Author Jorge Valenzuela lays out the foundational skills of computational thinking required for programming with robotics. Unlike other robotics books and curriculum, Rev Up Robotics takes a cross-curricular approach, showing educators how to begin incorporating robotics into their content area lessons and in conjunction with other subjects. You'll get an overview of standards-based skills that can be covered in English language arts, math, science, social studies and robotics electives. Teachers also get tips for selecting the robot that works for them and for students, and details on the functions of gears, motors and sensors. Also included is a deep dive into more advanced topics like the intersections of computer science, mechanical engineering and electrical engineering with robotics. Finally, you'll find advice for getting students involved with competitive robotics, and case studies that offer empirical evidence for using robotics successfully in instruction. The book: • Shows how to help students recognize and apply the four elements of computational thinking to familiar situations. • Provides a pathway from working with visual blocks to programming in C++. • Discusses building and programming robots, with tips for adding your own code and troubleshooting. • Demonstrates how to manipulate basic movement to better understand the functions of gears, motors and sensors. With activities and examples for grade levels K-8, teachers come away with easy-to-implement cross-curricular ideas to engage students in computer science and engineering activities.

What is a rubric and how are they being used in teacher education and evaluation? When did rubrics become ubiquitous in the field of education? What impact do rubrics have on students, teachers, teacher educators, and the educational enterprise? This book is an edited volume of essays that critically examine the phenomenon of rubrics in teacher education, evaluation and education more broadly. Rubrics have seen a dramatic rise in use and presence over the past twenty-five years in colleges of education and districts across the country. Although there is a wealth of literature about how to make rubrics, there is scant literature that explores the strengths and weaknesses of rubrics and the impact the rubric phenomenon is having in reshaping education. The chapters included in this edited volume will critically reflect on the contemporary contexts of rubrics and the uses and impact of rubrics in education. Since rubrics have become indelible in education, it is necessary for a fuller, nuanced discussion of the phenomenon. Creating a book that explores these aspects of rubrics is timely and fundamental to expanding the discourse on this ubiquitous evaluation tool. This book is not meant to be a series of chapters dedicated to best practices for creating rubrics, nor is this text meant to present all sides of the rubric discussion. Rather, this text intends to offer critical polemics about rubrics that can spur greater critical discussion about a phenomenon in education that has largely been unquestioned in the literature.

Rubrics offer concrete artefacts of what schools evaluate to be of merit, and what educators and schools value to be worth rewarding. Assessment Rubrics Decoded offers insights into a myriad of issues that affect, and are affected by, the construction of merit in students' learning and the articulation of (underlying) educational ideologies in the assessment of student achievement. Designed for both students and teachers - who should have parity of involvement in developing and using rubrics - this book covers the problematic issues of assessment in schools while offering readers practical solutions to navigating the ensuing tensions and dilemmas. The notion that rubrics may hinder assessment transparency is also discussed, with examples, to warn against uncritical use of rubrics that may discipline rather than help learners. The perspective of a school leader in providing assessment leadership to rubrics usage across a school is included for extending awareness of rubrics beyond classroom contexts. This provides an informed approach for teachers to understand the stakes and complexities involved in judging learning, and learners, whilst offering concrete options and suggestions to consider. This book will be a valuable resource for classroom teachers, school leaders, teacher educators and researchers interested in the field of assessment rubrics.

A Teacher's Guide

Breakout

Integrated STEM Learning in Research and Practice

501 Writing Prompts

Journal Keeping

High Possibility STEM Classrooms

Describes the traits of good writing in any genre and includes information on assessing student writing skills, lesson planning, and activities.

Instructional Strategies for Middle and High School

The "Write" Way Mathematics Journal Prompts & More, Geometry

Qualities of Effective Teachers

Writing, Grade 2

Dynamic Physical Education for Secondary School Students