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## KEY=SCIENCE - LIN PALMER

**Why Don't Students Like School? A Cognitive Scientist Answers Questions About How the Mind Works and What It Means for the Classroom** John Wiley & Sons **Easy-to-apply, scientifically-based approaches for engaging students in the classroom Cognitive scientist Dan Willingham focuses his acclaimed research on the biological and cognitive basis of learning. His book will help teachers improve their practice by explaining how they and their students think and learn. It reveals-the importance of story, emotion, memory, context, and routine in building knowledge and creating lasting learning experiences. Nine, easy-to-understand principles with clear applications for the classroom Includes surprising findings, such as that intelligence is malleable, and that you cannot develop "thinking skills" without facts How an understanding of the brain's workings can help teachers hone their teaching skills "Mr. Willingham's answers apply just as well outside the classroom. Corporate trainers, marketers and, not least, parents -anyone who cares about how we learn-should find his book valuable reading." —Wall Street Journal Complete Chemistry for Cambridge IGCSE®** Oxford University Press - Children **Fully updated and matched to the Cambridge syllabus, this stretching Student Book is trusted by teachers around the world to support advanced understanding and achievement at IGCSE. The popular, stretching approach will help students to reach their full potiential. Written by experienced authors, this updated edition is full of engaging content with up-to-date examples to cover all aspects of the Cambridge syllabus. The step-by-step approach will lead students through the course in a logical learning order building knowledge and practical skills with regular questions and practical activities. Extension material will stretch the highest ability students and prepare them to take the next step in their learning. Practice exam questions will consolidate student understanding and prepare them for exam success. You will also receive free access to extra support online, including practice exam questions, revision checklists and advice on how to prepare for an examination. Complete Chemistry** Oxford University Press, USA **Complete Chemistry is a revised and enlarged edition of the popular GCSE Chemistry improved to bring it totally up-to-date. This book covers all syllabuses with core material, for Double Award, and extension material, for Science: Chemistry. The breadth and depth is sufficient to stretch your students aiming for the top grades and makes it an excellent foundation for those intending to progress to advanced level chemistry. Key Points: · Now includes all the necessary topics for IGCSE · Concepts and principles of chemistry presented in a clear, straightforward style · Lively and colourful coverage of the relevance of chemistry in the real world · End of chapter testing with more challenging and structured questions · Examination style questions · Pagination remains the same as GCSE Chemistry so that the two can be used alongside each other The Way Life Works The Science Lover's Illustrated Guide to how Life Grows, Develops, Reproduces, and Gets Along** Times Books **An overview of biology outlines the sixteen key principles of life, the role of energy, the language of DNA, the theories of evolution, and the dynamics of growth Cambridge IGCSE Computer Science** Hachette UK **Endorsed by Cambridge Assessment International Education. Develop computational thinking and programming skills with complete coverage of the latest syllabus from experienced examiners and teachers. - Follows the order of the syllabus exactly, ensuring complete coverage - Introduces students to self-learning exercises, helping them learn how to use their knowledge in new scenarios - Accompanying animation files of the key concepts are available to download for free online. www.hoddereducation.co.uk/cambridgeextras-1 - Answers are available on the Teacher's CD. This book covers the IGCSE (0478), O Level (2210) and US IGCSE entry (0473) syllabuses, which are for first examination 2015. It may also be a useful reference for students taking the new Computer Science AS level course (9608). Point-Less An English Teacher's Guide to More Meaningful Grading "An exploration of moving away from traditional letter or number grades as an assessment and as a result producing more thoughtful students whose learning is more authentic"-- How to Design and Evaluate Research in Education** McGraw-Hill Humanities, Social Sciences & World Languages **How to Design and Evaluate Research in Education provides a comprehensive introduction to educational research. Step-by-step analysis of real research studies provides students with practical examples of how to prepare their work and read that of others. End-of-chapter problem sheets, comprehensive coverage of data analysis, and information on how to prepare research proposals and reports make it appropriate both for courses that focus on doing research and for those that stress how to read and understand research. The Ecology of Human Development** Harvard University Press **Science Education Research and Practice in East Asia: Trends and Perspectives** Chi-Jui Lien **This book is a collaborative product of an official project approved by the East-Asian Association for Science Education (EASE), one of the most important professional societies of science education in Asia. This EASE book is compiled with a unique approach. It consists of well-structured four sections: (A)The Historical Development of Science Education in East Asia, (B)The Achievements of Science Education Research in East Asia, (C)Science Teacher Training in East Asia, and (D)Some Challenges to Research in Science Education in East Asia. Its fifteen chapters are co-authored/collaborated by renowned scholars from regions of East Asia. The book successfully integrated and consolidated the research, findings, curricular developments, and science teaching practices that have shaped ongoing educational agenda and student learning outcome in an unprecedented approach. Six Regional Coordinators from Mainland China, Hong Kong, Japan, Korea, and Taiwan worked together with Editors and more than fifty science educators to assure the book project adequately reflects the trends and practices in this region. The six Regional Coordinators are: (1)Prof. Weiping HU, Shaanxi Normal University, (2)Prof. Winnie SO Wing Mui, The Education University of Hong Kong, (3)Prof. Masakata OGAWA, Tokyo University of Science, (4)Prof. Jinwoong SONG, Seoul National University, (5)Prof. Huann-shyang LIN, National Sun Yat-sen University, (6)Prof. Chi-jui LIEN, National Taipei University of Education. This book intends not only to serve as references, but also a complement of existing perspectives from western countries. Insights gained from the integration and consolidation of East-Asian developmental trends and perspectives would allow science educators, teachers, and policy makers make wise decision for future advancements for their own countries/regions. 1. Why We Study the History of Science Education in East Asia: A Comparison of the Emergence of Science Education in China and Japan. 2. The Advent of Science Education for All: A Policy Review across East-Asian Regions. 3. Trend and Development of School Science Education in Taiwan, Hong Kong, and Korea. 4. National/Regional Systems of Research Training in Science Education: The Experiences in Japan and Hong Kong. 5. Science Education Research Trends in East Asian Areas: A Quantitative Analysis in Selected Journals. 6. Current Trends of Science Education in East Asia (1995-2014): With a Focus on Local Academic Associations, Journal Papers, and Key Issues of Science Education in China Mainland, Japan, Korea, and Taiwan. 7. Diversity Dilemmas of Science Education in East Asia. 8. A Comparison of Elementary School Science Textbooks in East-Asia. 9. Primary School Science Teacher Training in East-Asia: In the Continuous Reforming for the Quality Assurance. 10. Pre-service Education of High School Science Teachers. 11. Science Education Reform and the Professional Development of Science Teachers in East Asian Regions. 12. Affective Aspects of Science Education in East Asia Regions. 13. Science Learning in Informal Environments in East Asia: Focusing on Science Museums/Centers. 14. Introducing Modern Science and High Technology in Schools. 15. Government Policy in Developing a STEM Curriculum: The Case of the High-Scope Program in Taiwan. Teaching and Learning Secondary School Mathematics Canadian Perspectives in an International Context** Springer **This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators. It is both representative of mathematics education generally, as well as unique to the particular geography and culture of Canada. The chapters address topics of broad applicability such as technology in learning mathematics, recent interest in social justice contexts in the learning of mathematics, as well as Indigenous education. The voices of classroom practitioners, the group ultimately responsible for implementing this new vision of mathematics teaching and learning, are not forgotten. Each section includes a chapter written by a classroom teacher, making this volume unique in its approach. We have much to learn from one another, and this volume takes the stance that the development of a united vision, supported by both research and professional dialog, provides the first step. The Indus Valley** Capstone **Uses archeological excavations to find out about the civilization of the Indus Valley. Good Practice In Science Teaching: What Research Has To Say What research has to say** McGraw-Hill Education (UK) **This volume provides a summary of the findings that educational research has to offer on good practice in school science teaching. It offers an overview of scholarship and research in the field, and introduces the ideas and evidence that guide it. Communicating Science and Technology in Society Issues of Public Accountability and Engagement** Springer Nature **This volume addresses the engagement between science and society from multiple viewpoints. At a time when trust in experts is being questioned, misinformation is rife and scientific and technological development show growing social impact, the volume examines the challenges in involving the public in scientific debates and decisions. It takes into account societal needs and concerns in research, and analyses the interface between the roles of institutions and individuals. From environmental challenges to science communication, participatory technological design to animal experimentation, and transdisciplinarity to norms and values in science, the volume brings together research on areas in which scientists and citizens interact, across diverse, often understudied, socio-cultural contexts in Europe. It encompasses the natural sciences, engineering and the social sciences, and the chapters follow diverse theoretical frameworks and methodologies, including both quantitative and qualitative approaches. This volume contributes not just to scholarly knowledge on the topic of science and society relations, but also provides useful information for students, policy makers, journalists, and STEM (science, technology, engineering and mathematics) researchers keen on engaging with their publics and conducting responsible research and innovation. Educational Research Quantitative, Qualitative, and Mixed Approaches** SAGE Publications **Assuming no prior knowledge, Educational Research by R. Burke Johnson and Larry Christensen offers a comprehensive, easily digestible introductory research methods text for undergraduate and graduate students. Readers will develop an understanding of the multiple research methods and strategies used in education and related fields; how to read and critically evaluate published research; and the ability to write a proposal, construct a questionnaire, and conduct an empirical research study on their own. Students rave about the clarity of this best seller and its usefulness for their studies, enabling them to become critical consumers and users of research. The Power of Explicit Teaching and Direct Instruction** SAGE **In this smart and accessible book, Greg Ashman explores how you can harness the potential of these often misunderstood and misapplied teaching methods to achieve positive learning outcomes for the students you teach. PISA Take the Test Sample Questions from**

OECD's PISA Assessments Sample Questions from OECD's PISA Assessments OECD Publishing This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment. The Book Reviewer Yellow Pages (9th edition) A Directory of 200 Book Bloggers, 40 Blog Tour Organizers and 32 Book Review Businesses Specializing in Indie-Published Books PartnerPress Slash hours of research time: :: 200 Book Bloggers: contact information, reading preferences, turnaround time, posting policies and more! :: 40 Blog Tour Organizers that can help manage your tour: contact information, pricing, additional services. :: 32 review businesses that reach retailers, librarians and readers: contact information, pricing, and policy overviews. :: Includes a quick start guide, outreach checklists, sample email template, and a guide to professional book design standards. Everything you need to immediately begin soliciting book reviews. The Book Reviewer Yellow Pages is the only comprehensive source of influential book reviewer profiles and book review guidance available to authors, small publishers, and publicists. This book contains the time-tested guidance you need to zero-in on the reviewers who will be interested in your indie or self-published book. Making Good Progress? The future of Assessment for Learning Oxford University Press - Children Making Good Progress? is a research-informed examination of formative assessment practices that analyses the impact Assessment for Learning has had in our classrooms. Making Good Progress? outlines practical recommendations and support that Primary and Secondary teachers can follow in order to achieve the most effective classroom-based approach to ongoing assessment. Written by Daisy Christodoulou, Head of Assessment at Ark Academy, Making Good Progress? offers clear, up-to-date advice to help develop and extend best practice for any teacher assessing pupils in the wake of life beyond levels. WordPress Complete - Sixth Edition Packt Publishing Ltd Learn how to build a beautiful and feature-rich website or blog with WordPress all on your own. About This Book Learn how to build a WordPress site quickly and effectively, and how to create content that's optimized for publication on the web. Learn the basics of working with WordPress themes and plugins, and even create your own. Beginner-friendly layout and advice you can apply from day 1. Packed with screenshots and examples. Who This Book Is For This book is for anyone who wants to learn how to create a functional website, without having to hire a developer or a designer. The best thing about WordPress—the open source software that we're going to be using—is that it has a minimal learning curve and that everyone can master it quickly. No specific website building experience is required. Having said that, this book will also appeal to everyone who wants to get a bit more in-depth with WordPress development and start working on their own plugins and themes. What You Will Learn What WordPress is, where to get it, and how to launch your website quickly using it. How to publish your first content (a blog post or article). What the most important sub-pages of a quality website are, and how to create them in WordPress. How to upload multimedia content such as images, audio, and video. How to install and work with plugins and widgets. Where to find quality themes and how to install them. How to develop your own WordPress plugins and themes. In Detail WordPress Complete, Sixth Edition is a practical guide for everyone who wants to start their journey as an online publisher, website owner, or even a website developer. It takes you step-by-step through the process of planning out and building your site, and offers loads of screenshots and examples along the way. It's also a beginner's guide to theme and plugin development. This book begins with the basics of WordPress, followed by the different components that you as a developer will need to use to work swiftly and efficiently. The book starts by introducing WordPress to new readers in this field. You are then shown how to set it up, implement a blog, and use plug-ins and widgets. You'll use themes to make any website look and feel better and more original. You also learn how to create your own themes and perform testing to ensure your website is bug-free. You will also acquire some idea of how to use WordPress for non-blog-like websites. By the end of the book, you will feel confident enough to design high-quality websites and will be familiar with the ins and outs of WordPress. Style and approach This is a step-by-step tutorial, where we show you how you build a professional-grade website from the ground up, adding more and more complex features as we move on. Philosophy of Social Science A New Introduction Oxford University Press, USA This is a much-needed new introduction to a field that has been transformed in recent years by exciting new subjects, ideas, and methods. It is designed both for students with central interests in philosophy and those planning to concentrate on the social sciences, and it presupposes no particular background in either domain. From the wide range of topics at the forefront of debate in philosophy of social science, the editors have chosen those which are representative of the most important and interesting contemporary work. A team of distinguished experts explore key aspects of the field such as social ontology (what are the things that social science studies?), objectivity, formal methods, measurement, and causal inference. Also included are chapters focused on notable subjects of social science research, such as well-being and climate change. Philosophy of Social Science provides a clear, accessible, and up-to-date guide to this fascinating field. Dianetics The Modern Science of Mental Health Albert Einstein said: We are using only 10% of our mental potential. Dianetics tells you how you can free a significantly larger part of your potential. Self confidence, harmonic relationships and a positive attitude towards life can absolutely be achieved. It makes Positive Thinking a reality. You can achieve your goals with more certainty if you are able to find the cause of upsets, unwanted reactions or emotions. The human mind is not a mysterious puzzle - impossible to resolve. Read and work with Dianetics, see how it works for you and make up your own mind. The book gives a clear description of what is happening in the mind and explains a practical method, enabling you to explore your own subconscious, and rid yourself of what holds you down, resulting in increased IQ and well-being. Watching the DVD called 'How to Use Dianetics' along with the book is recommended to have a visual illustration of the concepts and the practical application. Motivated Teaching Harnessing the Science of Motivation to Boost Attention and Effort in the Classroom This book is for teachers and school leaders interested in understanding what motivation for learning is, how it works, and how to influence it in the classroom. From the author of Memorable Teaching, this latest instalment in the High Impact Teaching series stitches together the best available evidence from multiple fields -- including behavioural economics, evolutionary psychology and motivation science -- to create a concise, coherent and actionable framework that you can use to help your pupils care more about and put more effort into your lessons. POWER UP YOUR TEACHING Motivated Teaching will not only leave you with a greater legacy of impact, but will boost your influence in the classroom, and enable you to make more evidence-informed professional judgements about your practice. --- CONTENTS Part I: Foundations Why motivation? The mechanics of motivation for learning framework Part II: Drivers 1. Secure success 2. Run routines 3. Nudge norms 4. Build belonging 5. Boost buy-in PRAISE FOR THE HIGH IMPACT TEACHING SERIES "If you have a spare half-hour or so, you could read Memorable Teaching from cover to cover. I doubt you'll find an education book with more useful insights per minute of reading time." - Dylan Wiliam, Emeritus Professor of Educational Assessment, UCL "How to improve your teaching by planning better. Things that make teachers' lives simpler like that are few and far between." - Doug Lemov, Author of Teach Like a Champion"I can't remember when I have ever read a book that takes such complex ideas and communicates them with sophistication and simplicity." - Oliver Caviglioli, Founder and author of HOW2s "The book packs an awful lot of useful material into a short, easy to read format and as such is something that all teachers should add to their collections." - Josh Goodrich, Head of CPD at Oasis Southbank "A truly excellent book which sets out the science behind learning with remarkable clarity." - Mark Enser, Head of Geography at Heathfield Community College Anomalies SelectBooks, Inc. In the future there is no disease. There is no war. There is no discontent. All citizens are complacent members of the Global Governance. But one summer is about to change everything. Keeva Tee just turned fifteen. She's about to make the trip to Monarch Camp to be imprinted with her intended life partner. But in her happy, carefree life in the Ocean Community, she hears whispers about "anomalies"—citizens who can't be imprinted. When Keeva arrives at Monarch Camp, her worst nightmare becomes a reality—she is an anomaly. She beings to doubt everything she's ever believed. What if freedom and individuality have been sacrificed for security? When Keeva finds a warning carved under a bunk bed she begins to understand: nonconformity will be punished, dissent is not an option, insurgents will be destroyed. Educart Term 2 Mathematics CBSE Class 10 Objective & Subjective Question Bank 2022 (Exclusively on New Competency Based Education Pattern) Educart Educart Class 10 Mathematics Question Bank combines remarkable features for Term 2 Board exam preparation. Exclusively developed based on Learning Outcomes and Competency-based Education Pattern, this one book includes Chapter-wise theory for learning; Solved Questions (from NCERT and DIKSHA), and Detailed Explanations for concept clearance and Unsolved Self Practice Questions for practice. Topper's Answers are also given to depict how to answer Questions according to the CBSE Marking Scheme Solutions. Science for Ninth Class Part 1 Physics S. Chand Publishing A series of books for Classes IX and X according to the CBSE syllabus and CCE Pattern Morgana Mage in the Robotic Age Chicken House Morgana loves robots and longs to attend robotics school in the city. But when she finally finds a way, she learns of a troubling secret hiding beneath its gleaming surface: a secret that threatens the balance of civilisation. Caught between two worlds, only Morgana has the power to find a solution. Data Science and Big Data Analytics Discovering, Analyzing, Visualizing and Presenting Data John Wiley & Sons Data Science and Big Data Analytics is about harnessing the power of data for new insights. The book covers the breadth of activities and methods and tools that Data Scientists use. The content focuses on concepts, principles and practical applications that are applicable to any industry and technology environment, and the learning is supported and explained with examples that you can replicate using open-source software. This book will help you: Become a contributor on a data science team Deploy a structured lifecycle approach to data analytics problems Apply appropriate analytic techniques and tools to analyzing big data Learn how to tell a compelling story with data to drive business action Prepare for EMC Proven Professional Data Science Certification Corresponding data sets are available from the book's page at Wiley which you can find on the Wiley site by searching for the ISBN 9781118876138. Get started discovering, analyzing, visualizing, and presenting data in a meaningful way today! Essentials of Educational Measurement Prentice Hall The ESL/ELL Teacher's Survival Guide Ready-to-Use Strategies, Tools, and Activities for Teaching All Levels John Wiley & Sons Maximize the educational potential of your ESL/ELL class with this singular resource The ESL/ELL Teacher's Survival Guide: Ready-to-Use Strategies, Tools, and Activities for Teaching English Language Learners of All Levels, 2nd Edition offers readers a comprehensive range of instructional strategies and educational resources for teaching English. The newly revised 2nd Edition includes brand new chapters on: • Working with Long-Term English Language Learners • Teaching English internationally • Teaching Elementary Age ELLs • Teaching Adult ELLs • Teaching ELLs with learning challenges • Culturally Responsive Instruction • Effective online instruction • Working with co-teachers and para-professionals In addition to the new chapters, The ESL/ELL Teacher's Survival Guide contains updated material on topics including math, science, social studies, Common Core Standards, the Next Generation Science Standards and 150 pages of new, highly engaging content. An essential resource for anyone involved in teaching English as a Second Language to students of all ages, this book is perfect for general education teachers and ESL specialists for students in grades six through twelve. It's also highly instructive for teachers of adult ESL classes, elementary and teacher educators, and resource specialists. Meaning Making In Secondary Science Classroomsaa McGraw-Hill Education (UK) This book focuses on the talk of science classrooms and in particular on the ways in which the different kinds of interactions between teachers and students contribute to meaning making and learning. Central to the text is a new analytical framework for characterising the key features of the talk of school science classrooms. This framework is based on sociocultural principles and links the work of theorists such as Vygotsky and Bakhtin to the day-to-day interactions of contemporary science classrooms. Build Your Own Website A Comic Guide to HTML, CSS, and WordPress No Starch Press Build Your Own Website is a fun, illustrated introduction to the basics of creating a website. Join Kim and her little dog Tofu as she learns HTML, the language of web pages, and CSS, the language used to style web pages, from the Web Guru and Glinda, the Good Witch of CSS. Once she figures out the basics, Kim travels to WordPress City to build her first website, with Wendy, the WordPress Maven, at her side. They take control of WordPress® themes, install useful plugins, and more. As you follow along, you'll learn how to: –Use HTML tags –Make your site shine with CSS –Customize WordPress to fit your needs –Choose a company to host your site and get advice on picking a good domain name The patient, step-by-step advice you'll find in Build Your Own Website will help you get your website up and running in no time. Stop dreaming of your perfect website and start making it! Improving K-12 STEM Education Outcomes through Technological Integration IGI Global The application of

technology in classroom settings has equipped educators with innovative tools and techniques for effective teaching practice. Integrating digital technologies at the elementary and secondary levels helps to enrich the students' learning experience and maximize competency in the areas of science, technology, engineering, and mathematics. Improving K-12 STEM Education Outcomes through Technological Integration focuses on current research surrounding the effectiveness, performance, and benefits of incorporating various technological tools within science, technology, engineering, and mathematics classrooms. Focusing on evidence-based approaches and current educational innovations, this book is an essential reference source for teachers, teacher educators, and professionals interested in how emerging technologies are benefiting teaching and/or learning efficacy. Why Evolution is True OUP Oxford For all the discussion in the media about creationism and 'Intelligent Design', virtually nothing has been said about the evidence in question - the evidence for evolution by natural selection. Yet, as this succinct and important book shows, that evidence is vast, varied, and magnificent, and drawn from many disparate fields of science. The very latest research is uncovering a stream of evidence revealing evolution in action - from the actual observation of a species splitting into two, to new fossil discoveries, to the deciphering of the evidence stored in our genome. Why Evolution is True weaves together the many threads of modern work in genetics, palaeontology, geology, molecular biology, anatomy, and development to demonstrate the 'indelible stamp' of the processes first proposed by Darwin. It is a crisp, lucid, and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution. Fourth Grade Technology A Comprehensive Curriculum Structured Learning LLC Used world-wide as a definitive technology curriculum, this six-volume series (Fourth Edition, 2011) is the all-in-one solution to running an effective, efficient, and fun technology program whether you re the lab specialist, IT coordinator, classroom teacher, or homeschooler. It is the choice of hundreds of school districts across the country, private schools nationwide and teachers around the world. Each volume includes step-by-step directions for a year's worth of projects, samples, grading rubrics, reproducibles, wall posters, teaching ideas and hundreds of online connections to access enrichment material and updates from a working technology lab. Aligned with ISTE national technology standards, the curriculum follows a tested timeline of which skill to introduce when, starting with mouse skills, keyboarding, computer basics, and internet/Web 2.0 tools in Kindergarten/First; MS Word, Publisher, Excel, PowerPoint, Google Earth, internet research, email and Photoshop in Second/Fifth. Each activity is integrated with classroom units in history, science, math, literature, reading, writing, critical thinking and more. Whether you're an experienced tech teacher or brand new to the job, you'll appreciate the hundreds of embedded links that enable you to stay on top of current technology thinking and get help from active technology teachers using the program. Extras include wall posters to explain basic concepts, suggestions for keyboarding standards, discussion of how to integrate Web 2.0 tools into the classroom curriculum and the dozens of online websites to support classroom subjects. Making Sense of Interventions for Children with Developmental Disorders A Guide for Parents and Professionals In this book, aimed at both parents and professionals, the authors discuss the non-evidence-based interventions that proliferate in the fields of children's speech, language, literacy, fluency, voice, communication, attention, cognition, working memory, behaviour and social connectedness. They explore the science - or lack thereof - behind the interventions and suggest evidence-based alternatives that enjoy stronger scientific support. The authors approach their topic with a deep understanding of, and empathy for, the parents and professionals who are doubtful about conventional treatments, disappointed with the practitioners associated with them, and attracted to controversial interventions. Handbook of Research on Tools for Teaching Computational Thinking in P-12 Education IGI Global 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. Specifications Grading Restoring Rigor, Motivating Students, and Saving Faculty Time Stylus Pub Llc Linda Nilson puts forward an innovative but practical and tested approach to grading--the specifications grading paradigm-- which restructures assessments to streamline the grading process and greatly reduce grading time, empower students to choose the level of attainment they want to achieve, reduce antagonism between the evaluator and the evaluated, and increase student receptivity to meaningful feedback, thus facilitating the learning process - all while upholding rigor. In addition, specs grading increases students' motivation to do well by making expectations clear, lowering their stress and giving them agency in determining their course goals. Among the unique characteristics of the schema, all of which simplify faculty decision making, are the elimination of partial credit, the reliance on a one-level grading rubric and the "bundling" of assignments and tests around learning outcomes. Successfully completing more challenging bundles (or modules) earns a student a higher course grade. Specs grading works equally well in small and large class settings and encourages "authentic assessment." Used consistently over time, it can restore credibility to grades by demonstrating and making transparent to all stakeholders the learning outcomes that students achieve. Scary, Gross, and Enlightening Books for Boys Grades 3-12 ABC-CLIO Finally, a book to help educators promote sure-fire reading pleasers to boy readers in grades 3-12! Scary, Gross, and Enlightening: Books for Boys Grades 3-12 is the helpful new reference handbook for educators looking for just the right books to captivate the imaginations of boys in a way that makes reading fun as well as effective. In chapters than span the full range of categories and genres, Scary, Gross, and Enlightening surveys the latest and greatest titles aimed at boys in the primary and secondary grades, including nonfiction, graphic novels, mystery and adventure, sports, sci-fi and fantasy, humor, history, books that were made into movies, read-aloud titles, and classic works that have stood the test of time. Each chapter suggests a number of appropriate and delightful titles on a specific theme and includes listings of corresponding websites, reproducible lessons, and activities. The book also provides lists of professional titles to support each chapter's theme, as well as research-based strategies for teaching with the suggested books. Chapters center on the common themes of "boy books" for grades 3-12, including sports, sci-fi and fantasy, graphic novels, mystery and adventure, and more Offers reproducible lessons and activities Includes a chapter on professional titles relevant to the various themes of the suggested books Exam Literacy A guide to doing what works (and not what doesn't) to better prepare students for exams Crown House Publishing Ltd In Exam Literacy: A guide to doing what works (and not what doesn't) to better prepare students for exams, Jake Hunton focuses on the latest cognitive research into revision techniques and delivers proven strategies which actually work. Foreword by Professor John Dunlosky. 'Read, highlight, reread, repeat if such a revision cycle sounds all too wearily familiar, you and your students need a better route to exam success. And in light of the recent decision to make all subjects at GCSE linear, so that students will be tested in one-off sittings, it will be even more important that students are well equipped to acquire and recall key content ahead of their exams. In this wide-ranging guide to effective exam preparation, Jake Hunton casts a careful eye over a wide range of research into revision techniques and details the strategies which have been proven to deliver the best results. With plenty of practical suggestions and subject-specific examples, Exam Literacy provides teachers with user-friendly advice on how they can make the content they cover stick, and shares up-to-date, evidence-based information on: The nature of learning and the various types of memory. How to improve students' retention of knowledge and recall of content. Why popular revision techniques, such as rereading, highlighting and summarising,may not be as effective as you think. How revision strategies that have been identified as being more effective such as interleaving, elaborative interrogation, self-explanation and retrieval practice can be embedded into day-to-day teaching. How students can be encouraged to make use of these winning strategies when revising independently. The Writing Revolution A Guide to Advancing Thinking Through Writing in All Subjects and Grades John Wiley & Sons "HELP! 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 turn weak writers into strong communicators by focusing on 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 speaking abilities Develop analytical capabilities TWR is as much 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 adapt the TWR strategies and activities to their current curriculum and weave them into their content instruction. But perhaps what's most revolutionary about the TWR method is that it takes the mystery out of learning to write well. It breaks the writing process down into manageable chunks and then has students practice the chunks they need, repeatedly, while also learning content.