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KEY=STUDENT - SIERRA KIERA

Uncovering Student Ideas in Science: 25 new formative assessment probes

NSTA Press *Uncovering Student Ideas in Science, Volume 4, offers 25 more formative assessment probes to help reveal students' preconceptions of fundamental concepts in science.*

Uncovering Student Ideas in Science: Another 25 formative assessment probes

NSTA Press *A resource for educators contains brief activities to help identify students' preconceptions about core science topics and includes teacher notes, research summaries, and suggestions for instructional approaches for teaching elementary, middle, and high school students.*

Uncovering Student Ideas in Science: 25 formative assessment probes

NSTA Press *Using probes as diagnostic tools that identify and analyze students’ preconceptions, teachers can easily move students from where they are in their current thinking to where they need to be to achieve scientific understanding.*

Even More Everyday Science Mysteries

Stories for Inquiry-based Science Teaching

NSTA Press *What are the odds of a meteor hitting your house? What are ""warm"" clothes anyway? Do you get ""more"" sunlight from Daylight Saving Time? Everyone loves a good mystery and these unfold in the 15 stories presented in Even More Everyday Science Mysteries, the third volume in author Richard Konicek-Moran's award-winning series. Again, the author uses stories without endings to teach a science principle, allowing the students to investigate how each story can be resolved. All the stories relate to the world around us and encourage students to ""take ownership"" of their learning.*

Even More Brain-powered Science

Teaching and Learning with Discrepant Events

NSTA Press *The third of Thomas OOCOBrienOCOs books designed for 5OCo12 grade science teachers, Even More Brain-Powered Science uses questions and inquiry-oriented discrepant eventsOCoexperiments or demonstrations in which the outcomes are not what students expectOCoto dispute misconceptions and challenge students to think about, discuss, and examine the real outcomes of the experiments. OOCOBrien has developed interactive activitiesOComany of which use inexpensive materialsOCoto engage the natural curiosity of both teachers and students and create new levels of scientific understanding.*"

More Brain-powered Science

Teaching and Learning with Discrepant Events

NSTA Press *The inquiry-based lessons and related extension activities can serve as the framework for professional development collaborations or as a supplement to conventional preservice science teaching methods courses.*

Hard-to-Teach Science Concepts

A Framework to Support 3rd-5th Grade Learners

NSTA Press *Authors Susan Koba and Carol Mitchell introduce teachers of grades 3OCo5 to their conceptual framework for successful instruction of hard-to-teach science concepts. Their methodology comprises four steps: (1) engage students about their preconceptions and address their thinking; (2) target lessons to be learned; (3) determine appropriate strategies; and (4) use Standards-based teaching that builds on student understandings.*"

Lecture-free Teaching

A Learning Partnership of Science Educators and Their Students

NSTA Press

Rise and Shine

A Practical Guide for the Beginning Science Teacher

NSTA Press

Rise and Shine provides a friendly support system that new science teachers can turn to in their first days, months, and even years in the classroom. This easy-to-read book offers plenty of helpful techniques for managing the classroom, maintaining discipline, and dealing with parents. But it also covers important topics unique to science teaching, such as setting up a laboratory, keeping the classroom safe, and initiating inquiry from the first day. Sprinkled throughout the book is candid advice from seasoned science teachers who offer both useful strategies and warm reassurance. *Rise and Shine* is designed to help preservice teachers, those in the first few years of teaching (regardless of grade level), and those who may be entering a new situation within the teaching field. If you need a mentor or if you are a mentor or instructor who wants to support beginning science teachers this book is for you.

You Want Me to Teach What?

Sure-fire Methods for Teaching Physical Science and Math

NSTA Press

Problem: You feel shaky about being assigned to teach upper-level science and math and need to get up to speed fast. Solution: Follow this concise book s tried-and-true methods, which you can integrate into your classroom and lesson plans starting from the first day of class. *You Want Me to Teach What?* avoids long discussions of education theory and specific lesson plans. Instead, it concentrates on general techniques for approaching a variety of problems and enhancing your teaching skills in science and math. It covers student psychology, classroom management, planning, instruction, problem-solving techniques, laboratory methods and reporting, assessment, and professional development. Without feeling inundated, you’ll find a wealth of sensible guidance whether you’re a preservice education major wanting to teach physical science or mathematics, a new teacher looking for practical methods to integrate into your instruction, or an experienced teacher in search of fresh ways to improve in the classroom.

Brain-powered Science

Teaching and Learning with Discrepant Events

NSTA Press

Hard-to-teach Biology Concepts

A Framework to Deepen Student Understanding

NSTA Press *This well-researched book provides a valuable instructional framework for high school biology teachers as they tackle five particularly challenging concepts in their classrooms, meiosis, photosynthesis, natural selection, proteins and genes, and environmental systems and human impact. The author counsels educators first to identify students' prior conceptions, especially misconceptions, related to the concept being taught, then to select teaching strategies that best dispel the misunderstandings and promote the greatest student learning. The book is not a prescribred set of lesson plans. Rather it presents a framework for lesson planning, shares appropriate approaches for developing student understanding, and provides opportunities to reflect and apply those approached to the five hard-to-teach topics. More than 300 teacher resources are listed.*

Uncovering Student Ideas in Astronomy

45 Formative Assessment Probes

NSTA Press

What do your students know or think they know about what causes night and day, whether the Moon orbits the Earth, and why the Sun keeps glowing? Find out with this book on astronomy, the latest in NSTA s popular Uncovering Student Ideas in Science series. The 45 astronomy probes provide situations that will pique your students interest while helping you evaluate their understanding (or misunders-tanding) of how the universe operates. The book is organised into four broad sections: the Earth and gravity; the Earth, Sun, and Moon system; the solar system and gravity in space; and stars, galaxies, and the universe. As the authors note, it s not always easy to help students untangle mistaken ideas. Using this powerful set of tools to identify students preconceptions is an excellent first step to helping your students achieve scientific understanding.

Discovering Science Through Inquiry: Matter Kit

Teacher Created Materials *The Discovering Science through Inquiry series provides teachers and students of grades 3-8 with direction for hands-on science exploration around particular science topics and focuses. The series follows the 5E model (engage, explore, explain, elaborate, evaluate). The Matter kit provides a complete inquiry model for the exploration of the structure and properties of matter through supported investigation. Encourage students through activities such as studying the chemical properties of matter and investigating whether household items are acids and bases. Matter kit includes: 16 Inquiry Cards in print and digital formats; Teacher's Guide; Inquiry Handbook (Each kit includes a single copy; additional copies can be ordered); Digital resources include PDFs of activities and additional teacher resources, including images and assessment tools; leveled background pages for students; and video clips to support both students and teachers.*

Discovering Science Through Inquiry: Earth Systems and Cycles Kit

Teacher Created Materials *The Discovering Science through Inquiry series provides teachers and students of grades 3-8 with direction for hands-on science exploration around particular science topics and focuses. The series follows the 5E model (engage, explore, explain, elaborate, evaluate). The Earth Systems and Cycles kit provides a complete inquiry model to explore Earth's various systems and cycles through supported investigation. Guide students as they make cookies to examine how the rock cycle uses heat to form rocks. Earth Systems and Cycles kit includes: 16 Inquiry Cards in print and digital formats; Teacher's Guide; Inquiry Handbook (Each kit includes a single copy; additional copies can be ordered); Digital resources include PDFs of activities and additional teacher resources, including images and assessment tools; leveled background pages for students; and video clips to support both students and teachers.*

Student-generated Digital Media in Science Education

Learning, explaining and communicating content

Routledge "*This timely and innovative book encourages us to ‘flip the classroom’ and empower our students to become content creators. Through creating digital media, they will not only improve their communication skills, but also gain a deeper understanding of core scientific concepts. This book will inspire science academics and science teacher educators to design learning experiences that allow students to take control of their own learning, to generate media that will stimulate them to engage with, learn about, and become effective communicators of science.*" *Professors Susan Jones and Brian F. Yates, Australian Learning and Teaching Council Discipline Scholars for Science "Represents a giant leap forward in our understanding of how digital media can enrich not only the learning of science but also the professional learning of science teachers." Professor Tom Russell, Queen’s University, Ontario, Canada "This excellent edited collection brings together authors at the forefront of promoting media creation in science by children and young people. New media of all kinds are the most culturally significant forms in the lives of learners and the work in this book shows how they can move between home and school and provide new contexts for learning as well as an understanding of key concepts." Dr John Potter, London Knowledge Lab, Dept. of Culture, Communication and Media, University College London, UK Student-generated Digital Media in Science Education supports secondary school teachers, lecturers in universities and teacher educators in improving engagement and understanding in science by helping students unleash their enthusiasm for creating media within the science classroom. Written by pioneers who have been developing their ideas in students’ media making over the last 10 years, it provides a theoretical background, case studies, and a wide range of assignments and assessment tasks designed to address the vital issue of disengagement amongst science learners. It showcases opportunities for learners to use the tools that they already own to design, make and explain science content with five digital media forms that build upon each other— podcasts, digital stories, slowmation, video and blended media. Each chapter provides advice for implementation and evidence of engagement as learners use digital tools to learn science content, develop communication skills, and create science explanations. A student team’s music video animation of the Krebs cycle, a podcast on chemical reactions presented as commentary on a boxing match, a wiki page on an entry in the periodic table of elements, and an animation on vitamin D deficiency among hijab-wearing Muslim women are just some of the imaginative assignments demonstrated. Student-generated Digital Media in Science Education illuminates innovative ways to engage science learners with science content using contemporary digital technologies. It is a must-read text for all educators keen to effectively convey the excitement and wonder of science in the 21st century.*

Uncovering Student Ideas in Science: 25 more formative assessment probes

National Science Teachers Assn *A resource for educators contains brief activities to help identify students' preconceptions about core science topics and includes teacher notes, research summaries, and suggestions for instructional approaches for teaching elementary, middle, and high school students.*

Diagnostic Classroom Observation

Moving Beyond Best Practice

Corwin Press *The diagnostic classroom observation model includes protocols for observing classroom instruction, key indicators of quality teaching, and scoring forms for the final evaluation and review.*

Uncovering Student Ideas in Earth and Environmental Science

32 New Formative Assessment Probes

Uncovering Student Ideas in Physical Science, Volume 1

45 New Force and Motion Assessment Probes

NSTA Press *This is a must-have book if you're going to tackle the challenging concepts of force and motion in your classroom. --*

Teaching K-12 Science and Engineering During a Crisis

National Academies Press *The COVID-19 pandemic is resulting in widespread and ongoing changes to how the K-12 education system functions, including disruptions to science teaching and learning environments. Students and teachers are all figuring out how to do schooling differently, and districts and states are working overtime to reimagine systems and processes. This is difficult and stressful work in the middle of the already stressful and sometimes traumatic backdrop of the global pandemic. In addition, students with disabilities, students of color, immigrants, English learners, and students from under-resourced communities have been disproportionately affected, both by the pandemic itself and by the resulting instructional shifts. Teaching K-12 Science and Engineering During a Crisis aims to describe what high quality science and engineering education can look like in a time of great uncertainty and to support practitioners as they work toward their goals. This book includes guidance for science and engineering practitioners - with an emphasis on the needs of district science supervisors, curriculum leads, and instructional coaches. Teaching K-12 Science and Engineering During a Crisis will help K-12 science and engineering teachers adapt learning experiences as needed to support students and their families dealing with ongoing changes to instructional and home environments and at the same time provide high quality in those experiences.*

Leadership of Assessment, Inclusion, and Learning

Springer *This book provides pragmatic strategies and models for student assessment and ameliorates the heightened sense of confusion that too many educators and leaders experience around the complexities associated with assessment. In particular, it offers guidance to school and district personnel charged with fair and appropriate assessment of students who represent a wide variety of abilities and cultures. Chapters focus on issues that directly impact the educational lives of teachers, students, parents, and caregivers. Importantly, the confluence of assessment practices and community expectations also are highlighted. Assessment is highly politicised in contemporary society and this book will both confirm and challenge readers' beliefs and practices. Indeed, discerning readers will understand that the chapters offer them a bridge from many established assessment paradigms to pragmatic, ethical solutions that align with current expectations for schools and districts. In Part One, readers engage with concepts and skills needed by school learning leaders to guide optimal assessment practices. Part Two delves into student assessment within and across disciplines. Part Three provides pragmatic approaches that address assessment in the context of inclusive intercultural education, pluralism, and globalisation.*

Uncovering Student Ideas in Physical Science, Volume 2

39 New Electricity and Magnetism Formative Assessment Probes

If you and your students can't get enough of a good thing, Volume 2 of Uncovering Student Ideas in Physical Science is just what you need. The book offers 39 new formative assessment probes, this time with a focus on electric charge, electric current, and magnets and electromagnetism. It can help you do everything from demystify electromagnetic fields to explain the real reason balloons stick to the wall after you rub them on your hair. Like the other eight wildly popular books in the full series, Uncovering Student Ideas in Physical Science, Volume 2: Provides a collection of engaging questions, or formative assessment probes. Each probe in this volume is designed to uncover what students know--or think they know--about electric or magnetic phenomena or identify misunderstandings they may develop during instruction.Offers field-tested teacher materials that provide best answers along with distracters designed to reveal misconceptions that students commonly hold.Is easy to use by time-starved teachers like you. The new probes are short, easy-to-administer activities that come ready to reproduce.In addition to explaining the science content, the teacher materials note links to national standards and suggest grade-appropriate ways to present material so students will learn it accurately.By helping you detect and then make sound instructional decisions to address students' misconceptions, this new volume has the potential to transform your teaching.

Conceptual Structures for Discovering Knowledge

19th International Conference on Conceptual Structures, ICCS 2011, Derby, UK, July 25-29, 2011, Proceedings

Springer *This book constitutes the proceedings of the 19th International Conference on Conceptual Structures, ICCS 2011, held in Derby, UK, in July 2011. The 18 full papers and 4 short papers presented together with 12 workshop papers were carefully reviewed and selected for inclusion in the book. The volume also contains 3 invited talks. ICCS focuses on the useful representation and analysis of conceptual knowledge with research and business applications. It advances the theory and practice in connecting the user's conceptual approach to problem solving with the formal structures that computer applications need to bring their productivity to bear. Conceptual structures (CS) represent a family of approaches that builds on the successes of artificial intelligence, business intelligence, computational linguistics, conceptual modelling, information and Web technologies, user modelling, and knowledge management. Two of the workshops contained in this volume cover CS and knowledge discovery in under-traversed domains and in task specific information retrieval. The third addresses CD in learning, teaching and assessment.*

A Student's Guide to Online Learning: Finding Success in Digital Study

McGraw-Hill Education (UK) *"This book is a treasure-trove of ideas, practical tips, and thoroughly sensible advice!" Dr Cora Beth Fraser, Associate Lecturer and Honorary Research Associate with The Open University "An essential guide for anyone considering online learning – whether wholly online or through blended learning." Natacha Harding, University of Winchester, UK "Gina May and Tim Bentley have written a must-read guide for anyone who is considering studying online." Yolanda De Iuliis, Student Support Worker, The Open University, researcher and host of podcast 'Conversations About Mithras' Online learning skills differ from those needed for face-to-face learning. A Student's Guide to Online Learning teaches you how to develop those skills through a range of advice, examples and practical exercises whether you are undertaking distance, wholly online or blended learning. Many students experience difficulties when dealing with the differences between learning in the traditional and digital environments. A key component of the successful completion of any online or blended course is confidence and enjoyment, this book enables you to have both. This book covers all you need to know for your online course, including: •How to develop an academic online persona •How to communicate in synchronous and asynchronous situations including tutorials and forums •Tips on confidently networking behind the computer screen •Advice on qualifications, career paths and employability skills Written by experienced academics who act as mentors throughout, A Student's Guide to Online Learning is an accessibly written, comprehensive, one-stop guide for students at all levels who are learning online in any capacity. Gina May is an Independent Course Provider; Associate Lecturer at the Open University and a Senior Fellow of the Higher Education Academy with a particular interest in online teaching and learning. Tim Bentley is an NHS Paramedic and Paramedic Educator responsible for mentoring student paramedics in their clinical education. He has a particular interest in and has championed and implemented Virtual Learning Environments and web services.*

Innovative Approaches to Socioscientific Issues and Sustainability Education

Linking Research to Practice

Springer Nature *This book explores innovative approaches to teacher professional learning, examples of teaching enacted in classrooms, and factors affecting the promotion of quality teaching in socio-scientific issues and sustainability contexts. Since educational settings and cultures influence teaching, the different approaches and perspectives in various cross-national contexts enable us to appreciate the diversity of different countries' practices and provide insight into seminal approaches to socio-scientific issues-based teaching internationally. The book consists of three parts: innovative professional development programs, innovative teaching approaches, and issues relating to student engagement with socio-scientific issues and sustainability education. The book targets those who can be expected to develop curriculum, enact teaching practices, and facilitate teachers' professional development in socio-scientific issues and sustainability education.*

Teachers Discovering Computers: Integrating Technology in a Changing World

Cengage Learning *TEACHERS DISCOVERING COMPUTERS: INTEGRATING TECHNOLOGY IN A CHANGING WORLD, EIGHTH EDITION introduces future educators to technology and digital media in order to help them successfully teach the current generation of digital students. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

Play and STEM Education in the Early Years

International Policies and Practices

Springer Nature *This edited book provides an overview of unstructured and structured play scenarios crucial to developing young children's awareness, interest, and ability to learn Science, Technology, Engineering and Mathematics (STEM) in informal and formal education environments. The key elements for developing future STEM capital, enabling children to use their intuitive critical thinking and problem-solving abilities, and promoting active citizenship and a scientifically literate workforce, begins in the early years as children learn through play, employing trial and error, and often investigating on their own. Forty-seven STEM experts come together from 16 countries (Argentina, Australia, Belgium, Canada, England, Finland, Germany, Israel, Jamaica, Japan, Malta, Mauritius, Mexico, Russia, Sweden, and the USA) and describe educational policies and experiences related to young learners 3–4 years of age, as well as students attending formal-nursery school, early primary school, and the early years classes post 5 years of age. The book is intended for parents seeking to provide STEM activities for their children at home and in playgroups, citizen scientists seeking guidance to provide children with quality educational activities, daycare practitioners providing educational structures for young children from birth to formal education, primary school teachers and preservice teachers seeking to teach preschool, kindergarten or children typically aged 5–8 years old in grades 1–3, as well as researchers and policy makers working in science didactics with small children.*

Science Formative Assessment, Volume 2

50 More Strategies for Linking Assessment, Instruction, and Learning

Corwin Press *Deepen scientific understanding with formative assessment! Only by really knowing what your students are thinking can you design learning opportunities that deepen content mastery and meet their individual needs. In this highly engaging resource, internationally respected expert Page Keeley shares 50 new techniques to pinpoint student understanding before, during, and after instruction. In addition to promoting best practices in the classroom, the techniques shared here support learning and link instruction to the Next Generation Science Standards. These flexible assessments can be used with any science curriculum, along with: Practical strategies for use throughout the instruction cycle Considerations for implementation and suggestions for modification An explanation of how each technique promotes learning*

Discovering Psychology: The Science of Mind

Cengage Learning *In this innovative approach to the introductory course, John Cacioppo and Laura Freberg present psychology as a multidisciplinary, integrative science that is relevant for students of all majors. In DISCOVERING PSYCHOLOGY, 3rd Edition, the authors use a familiar chapter structure to provide an easy roadmap for the course, while highlighting connections within psychology as well as between psychology and other disciplines. The writing and features are smart and engaging, and consistently illustrate the benefit of using multiple perspectives within psychology. Cacioppo and Freberg offer the best science possible, including exciting new research findings likely to expand students' understanding of psychology as a scientific field of study. Features and images coordinate with and enhance the text, providing additional opportunities for critical thinking and connecting ideas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

Seeing Students Learn Science

Integrating Assessment and Instruction in the Classroom

National Academies Press *Science educators in the United States are adapting to a new vision of how students learn science. Children are natural explorers and their observations and intuitions about the world around them are the foundation for science learning. Unfortunately, the way science has been taught in the United States has not always taken advantage of those attributes. Some students who successfully complete their Kâ€"12 science classes have not really had the chance to "do" science for themselves in ways that harness their natural curiosity and understanding of the world around them. The introduction of the Next Generation Science Standards led many states, schools, and districts to change curricula, instruction, and professional development to align with the standards. Therefore existing assessmentsâ€"whatever their purposeâ€"cannot be used to measure the full range of activities and interactions happening in science classrooms that have adapted to these ideas because they were not designed to do so. Seeing Students Learn Science is meant to help educators improve their understanding of how students learn science and guide the adaptation of their instruction and approach to assessment. It includes examples of innovative assessment formats, ways to embed assessments in engaging classroom activities, and ideas for interpreting and using novel kinds of assessment information. It provides ideas and questions educators can use to reflect on what they can adapt right away and what they can work toward more gradually.*

Finding Your Online Voice

Stories Told by Experienced Online Educators

Psychology Press *Finding Your Online Voice offers a thought-provoking discussion of innovative approaches to technology-based distance education. Editor J. Michael Spector focuses on how highly experienced teachers conceptualize and organize online classes. Best practices and guidelines for effective online teaching as well as a set of instructor skills specific to online learning environments are featured in the volume. Distinguished researchers recount stories from a richly detailed, personal viewpoint on topics such as: *teaching orientations and philosophies; *approaches to learning and instruction; *orientation to and uses of technology; *models and methods of technology-based teaching; and *reflections and self-assessments. This work is appropriate for professors, students, and professional practitioners working in the areas of distance education and educational technology. It is intended as a primary resource in courses on technology integration.*

Ideas in Marketing: Finding the New and Polishing the Old

Proceedings of the 2013 Academy of Marketing Science (AMS) Annual Conference

Springer *Founded in 1971, the Academy of Marketing Science is an international organization dedicated to promoting timely explorations of phenomena related to the science of marketing in theory, research, and practice. Among its services to members and the community at large, the Academy offers conferences, congresses and symposia that attract delegates from around the world. Presentations from these events are published in this Proceedings series, which offers a comprehensive archive of volumes reflecting the evolution of the field. Volumes deliver cutting-edge research and insights, complimenting the Academy's flagship journals, the Journal of the Academy of Marketing Science (JAMS) and AMS Review. Volumes are edited by leading scholars and practitioners across a wide range of subject areas in marketing science. This volume includes the full proceedings from the 2013 Academy of Marketing Science (AMS) Annual Conference held in Monterey, California, entitled Ideas in Marketing: Finding the New and Polishing the Old.*

Our Changing Environment, Grade K

STEM Road Map for Elementary School

Taylor & Francis *What if you could challenge your kindergartners to come up with a way to reduce human impact on the environment? With this volume in the STEM Road Map Curriculum Series, you can! Our Changing Environment outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines. Like the other volumes in the series, this book is designed to meet the growing need to infuse real-world learning into K–12 classrooms. This interdisciplinary, three-lesson module uses project- and problem-based learning to help students investigate the environment around them, with a focus on ways that humans can impact the environment. Working in teams, students will investigate various types of human impact on the environment (including pollution, littering, and habitat destruction), will participate in a classroom recycling program, and will explore the engineering design process as they devise ways to repurpose waste materials. To support this goal, students will do the following: Identify human impacts on the environment. Identify technological advances and tools that scientists use to learn about the changing environment, and use technology to gather data. Explain, discuss, and express concepts about the environment through development and design of a publication to report their scientific findings about the environment around the school. Chart and understand local weather patterns, and make connections between weather conditions and their observations of the environment. Identify and demonstrate recycling practices, including sorting materials and tracking amounts of materials recycled, and participate in a class recycling program. The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards, the Common Core State Standards, and the Framework for 21st Century Learning. In-depth and flexible, Our Changing Environment can be used as a whole unit or in part to meet the needs of districts, schools, and teachers who are charting a course toward an integrated STEM approach.*

Writing Strategies for Science

Teacher Created Materials *Help students write about science content and build their scientific thinking skills! This 2nd edition resource was created to support College and Career Readiness Standards, and provides an in-depth research base about content-area literacy instruction, including key strategies to help students write about and comprehend scientific content. Each strategy includes classroom examples by grade ranges (1-2, 3-5, 6-8 and 9-12) and necessary support materials, such as graphic organizers, templates, or digital resources to help teachers implement quickly and easily. Specific suggestions for differentiating instruction are also provided to help English language learners, gifted students, and students reading below grade level.*

Uncovering Student Ideas in Life Science

NSTA Press *Author Page Keeley continues to provide KOCo12 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroomOCothe formative assessment probeOCoin this first book devoted exclusively to life science in her Uncovering Student Ideas in Science series. Keeley addresses the topics of life and its diversity; structure and function; life processes and needs of living things; ecosystems and change; reproduction, life cycles, and heredity; and human biology.*"

Uncovering Student Thinking in Mathematics, Grades 6-12

30 Formative Assessment Probes for the Secondary Classroom

Corwin Press *Discussing standards, research, and more, these 30 probes help secondary teachers assess students' grasp of core mathematics concepts and modify their instruction to improve student achievement.*

Discovering Biblical Equality

Biblical, Theological, Cultural, and Practical Perspectives

InterVarsity Press *The conversation about gender roles in Christian life and the church has evolved, but the topic continues to inspire debate and disagreement. Now in its third edition, this fresh, positive defense of gender equality brings together scholars firmly committed to the authority of Scripture to explore historical, biblical, theological, cultural, and practical aspects of this discussion.*

Principles and Big Ideas of Science Education

Uncovering Student Thinking in Mathematics

25 Formative Assessment Probes

Corwin Press *Appropriate for all grade levels, these 25 field-tested, easy-to-use mathematics assessment probes help teachers modify instruction by determining students' understanding of core mathematical concepts.*