

Elementary Science
Methods: A
Constructivist Approach
/ David Jerner Martin.

Martin

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Elementary Science Methods A Constructivist Approach

**David Jerner Martin, Kimberly S.
Loomis**



Elementary Science Methods A Constructivist Approach:

Elementary Science Methods David Jerner Martin, 2003 This text's unique approach guides students in learning by doing. Geared to teachers of preschool through sixth grade students, it represents the cutting edge of elementary science teaching with investigations into contemporary topics. Access to InfoTrac College Edition will enhance student understanding.

Elementary Science Methods: A Constructivist Approach David Jerner Martin, 2008-01-31 As the groundbreaking text that pioneered a constructivist approach to elementary science teaching, **ELEMENTARY SCIENCE METHODS A CONSTRUCTIVIST APPROACH** Fifth Edition is based on two fundamental and complementary ideas: it is more important for children to learn how to do science than to learn about science, and elementary science teachers do not need to know a great deal of science but rather should be co-inquirers with their students. This text features a wealth of exercises, including open-ended inquiry activities that help teacher candidates construct their own personal conceptualizations about science content and teaching methods. More than 170 process-oriented, open-ended activities, organized by grade level, are suggested to encourage children to develop and perform their own investigations. The Book Companion DVD, available separately, provides valuable tools and resources such as additional activities and video clips that students can use both in their college course and later in elementary science classrooms. All activities and much of the text content are clearly linked to National Science Education Standards (NSES) for content, professional development, assessment, and teaching, and they contain suggestions of appropriate children's literature to encourage interdisciplinary learning. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Elementary Science Methods: A Constructivist Approach David Martin, 2005-07-22 In this pioneering text, Martin uses a constructivist approach to guide students in learning how to teach in a constructivist manner. Grounded in the belief that it is more important for children to learn how to do science than it is for them to learn about science, this text is predicated on the reality that teachers of elementary science do not need to know a great deal of science to be good science teachers but need to be co-inquirers with their students. To facilitate your students' learning, this text features a wealth of exercises for teacher candidates; the book includes open-ended inquiry activities that help them to construct their own personal conceptualizations about science content and teaching science in the elementary school, and it contains over 170 process-oriented, open-ended activities that teachers can use to encourage children to develop and perform their own investigations. The Book Companion CD-ROM, included with each new copy, provides tools and resources such as additional activities and video which students can use both in their college course and later in elementary science classrooms. All activities are linked to National Science Education Standards for content, professional development, assessment, and teaching, and the activities contain suggestions of appropriate children's literature. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Elementary Science Methods Andrew Martin, David Jerner

Martin,2002-07 This popular text is the first science methods book to truly practice what it preaches using a constructivist approach to guide students in learning how to teach in a constructivist manner The text includes a wealth of open ended inquiry activities such as Constructing Your Ideas for students to complete in class These activities help students to construct their own personal conceptualizations about teaching science in the elementary school This text also features over 170 process oriented activities for children including Constructing Science in the Classroom and In the Schools each keyed to grade levels and each open ended so teachers can encourage children to develop and perform their own investigations All activities are linked to National Science Education Standards for appropriate content professional development assessment and teaching and the activities contain suggestions of appropriate accompanying children s literature Martin s text takes the approach that it is more important for children to learn how to do science than it is for them to learn about science Children learn how to do science by mastering the scientific processes and applying them in inquiries into scientific questions Employing the constructivist approach teachers help children form personally constructed meanings from their own experience and thought The text is predicated on the reality that teachers of elementary science do not need to know a great deal of science to be good science teachers but need to be co inquirers with their students

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9780495506751 **Cases on Research-Based Teaching Methods in Science Education** de Silva, Eugene,2014-08-31

While the great scientists of the past recognized a need for a multidisciplinary approach today s schools often treat math and science as subjects separate from the rest This not only creates a disinterest among students but also a potential learning gap once students reach college and then graduate into the workforce Cases on Research Based Teaching Methods in Science Education addresses the problems currently facing science education in the USA and the UK and suggests a new hands on approach to learning This book is an essential reference source for policymakers academicians researchers educators curricula developers and teachers as they strive to improve education at the elementary secondary and collegiate levels

Designing and Teaching the Elementary Science Methods Course Sandra K. Abell,Ken Appleton,Deborah L. Hanuscin,2010-02-25 This guide for elementary science teacher educators outlines the theory principles and strategies they need to know in order to plan and carry out instruction for future elementary science teachers and provides classroom

examples anchored to those principles The book is grounded in the theoretical framework of pedagogical content knowledge

PCK **Elementary Science Methods** David Jerner Martin,1997 Grade level 1 2 3 4 5 6 7 e p i s t **Constructing Early**

Childhood Science David Jerner Martin,2001 Open ended inquiry activities from a constructionist perspective for young children Basic processes include observing classifying communicating measuring predicting and inferring Building Teachers: A Constructivist Approach to Introducing Education David Jerner Martin,Kimberly S. Loomis,2013-06-25 Designed from the ground up with a constructivist framework BUILDING TEACHERS A CONSTRUCTIVIST APPROACH TO INTRODUCING EDUCATION 2nd Edition helps future teachers create their own understanding of education As the authors address the key topics generally covered in an introductory book they encourage readers to develop their own understandings by connecting their prior knowledge experiences and biases with new experiences to which they will be exposed during the course Highlights of the new edition include stronger standards integration and expanded material on diversity and technology By interacting with the materials presented rather than merely memorizing the book s content readers learn what teaching is all about in an exploratory inquiring constructivist based manner In turn they can help the children in their classrooms learn meaningfully Available with InfoTrac Student Collections <http://goengage.com/infotrac> Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *Teaching Primary Science Constructively* Keith Skamp,Christine Preston,2017-09-05 Teaching Primary Science Constructively helps readers to create effective science learning experiences for primary students by using a constructivist approach to learning This best selling text explains the principles of constructivism and their implications for learning and teaching and discusses core strategies for developing science understanding and science inquiry processes and skills Chapters also provide research based ideas for implementing a constructivist approach within a number of content strands Throughout there are strong links to the key ideas themes and terminology of the revised Australian Curriculum Science This sixth edition includes a new introductory chapter addressing readers preconceptions and concerns about teaching primary science Teaching Young Children Mathematics Sydney L. Schwartz,2005-09-30 Children learn mathematics most effectively in contexts that are meaningful to them Realizing the potential of these contexts for fostering young children s mathematical learning while nurturing and challenging them requires knowledge of mathematics as well as of child development Avoiding the debates surrounding hands on learning vs direct instruction the author focuses on the value of different contexts for learning and illustrates ways to genuinely engage children as active learners The work is rich with examples of children s interactions with each other and with adults as they utilize and extend their understanding of mathematics Examples and guidelines for developing lessons and activities will be useful to educators and parents Chapters explore how we underestimate young children s mathematical capabilities how appropriate sequencing of learning and building on prior knowledge will enhance understanding what teachers including parent teachers need to know and high stakes testing This is a work that brings together the connections between knowing the basics and constructing knowledge in accessible and practical ways **Building Teachers** David Jerner Martin,Kimberly S. Loomis,2014 Designed from the

ground up with a constructivist framework **BUILDING TEACHERS A CONSTRUCTIVIST APPROACH TO INTRODUCING EDUCATION** 2nd Edition helps future teachers create their own understanding of education As the authors address the key topics generally covered in an introductory book they encourage readers to develop their own understandings by connecting their prior knowledge experiences and biases with new experiences to which they will be exposed during the course Highlights of the new edition include stronger standards integration and expanded material on diversity and technology By interacting with the materials presented rather than merely memorizing the book's content readers learn what teaching is all about in an exploratory inquiring constructivist based manner In turn they can help the children in their classrooms learn meaningfully **Building Effective Strategies for Teaching of Science' 2008 Ed. L. Ferrer,2008** Primary Science:

Teaching Theory and Practice John Sharp,Graham Peacock,Rob Johnsey,Shirley Simon,Robin Smith,Alan Cross,Diane Harris,2020-12-16 All you need to know about the theory and practice of teaching primary science If you are training to be a primary school teacher a knowledge of the primary science curriculum is not enough you need to know HOW to teach science in primary schools This is the essential teaching theory and practice text for primary science It takes a focused look at the practical aspects of teaching and covers the important skills of classroom management planning monitoring and assessment and relates them specifically to primary science This new edition now includes a new chapter on creative curriculum approaches **Engineering Instruction for High-Ability Learners in K-8 Classrooms** National Assoc For Gifted Children,Alicia Cotabish,2021-09-03 Engineering Instruction for High Ability Learners in K 8 Classrooms is an application based practitioners guide to applied engineering that is grounded in engineering practices found in the new Next Generation Science Standards NGSS and the Standards for Engineering Education The book provides educators with information and examples on integrating engineering into existing and newly designed curriculum The book specifies necessary components of engineering curriculum and instruction recommends appropriate activities to encourage problem solving creativity and innovation and provides examples of innovative technology in engineering curriculum and instruction Additionally authors discuss professional development practices to best prepare teachers for engineering instruction and provide recommendations to identify engineering talent among K 8 students Finally the book includes a wealth of resources including sample lesson and assessment plans to assist educators in integrating engineering into their curriculum and instruction

Hard-to-Teach Science Concepts Susan Koba,Carol T. Mitchell,2011 Authors Susan Koba and Carol Mitchell introduce teachers of grades 3 5 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 The authors not only explain how to use their framework but also provide a variety of tools and examples of its application on four hard to teach foundational concepts the flow of energy and matter in ecosystems force and motion matter and its

transformation and Earth's shape Both preservice and inservice elementary school teachers will find this approach appealing and the authors engaging writing style and user friendly tables help educators adapt the method with ease

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