Grade 4 Science LEAP Test Specifications

Test Sessions (untimed)

Session 1: 40 multiple-choice items

Session 2: 4 short-answer items

Session 3: 1 comprehensive science task with 3 short-answer items (2-point rubric) and 1 extended Constructed response item (4-point rubric)

The test items reflect the benchmarks and focus on both the why and the implications of phenomena in science, rather than focus on the what and the specific facts or details.

The multiple-choice items focus on important science concepts and the process of inquiry and allow students to show their breadth of understanding.

The 2-point short-answer items address the unifying concepts and processes of science. These items allow students to reflect on a science concept, demonstrate their understanding, and make meaning from a given set of data. The wording of the items is direct and specific. Items that require multiple examples or reasons clearly state the exact number rather than a minimum (for example, "Give at least two reasons . . .").

The comprehensive science task integrates the Science as Inquiry strand with at least one content strand (such as Science and the Environment). Students are provided a science manipulative and are required to observe, use, and react to the material. Students are also expected to make scientific conclusions based on this experience. Separate card stock manipulatives are provided. The types of test items that accompany the science task may include data tables for students to complete or interpret. Students may be required to record data and observations about the manipulative.

Strand	Multiple- Choice (1 point)	Short- Answer (2 points)	ECR Items (4 points)	Score Points
Science as Inquiry	8	0		8
Physical Science	8	1		10
3. Life Science	8	-1		10
Earth and Space Science	8	1		10
5. Science and the Environment	8	1		10
	prehensive Science	Task		
Science as Inquiry Dimension 1 (Questioning, Planning, Doing, and Recording)		1		2
Science as Inquiry Dimension 2 (Interpreting and Communicating)		2		4
Physical Science	1			
3. Life Science			4	
4. Earth and Space Science		the four		
Science and the Environment			strands)	
Total Score Points	40	14	4	58

4 Grade Full Leap Test For 2014

Tim Waller, Eva Ärlemalm-Hagsér, Ellen Beate Hansen Sandseter, Libby Lee-Hammond, Kristi Lekies, Shirley Wyver

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Complete Year, Grade 4, 2014-06-02 Complete Year for Grade 4 provides a whole year s worth of practice for essential school skills including word roots prepositional phrases similes and metaphors multiplication and division fractions and decimals angles and more Thinking Kids R Complete Year is a comprehensive at home learning resource with 36 lessons one for each week of the school year Practice activities for multiple subject areas including reading writing language arts and math are included in each weekly lesson to ensure mastery of all subject areas for one grade level Complete Year lessons support the Common Core State Standards now adopted in most US states Handy organizers help parents monitor and track their child's progress and provide fun bonus learning activities Complete Year is a complete solution for academic success in the coming school year Handbook of Test Development Suzanne Lane, Mark R. Raymond, Thomas M. Haladyna, 2015-10-08 The second edition of the Handbook of Test Development provides graduate students and professionals with an up to date research oriented guide to the latest developments in the field Including thirty two chapters by well known scholars and practitioners it is divided into five sections covering the foundations of test development content definition item development test design and form assembly and the processes of test administration documentation and evaluation Keenly aware of developments in the field since the publication of the first edition including changes in technology the evolution of psychometric theory and the increased demands for effective tests via educational policy the editors of this edition include new chapters on assessing noncognitive skills measuring growth and learning progressions automated item generation and test assembly and computerized scoring of constructed responses The volume also includes expanded coverage of performance testing validity fairness and numerous other topics Edited by Suzanne Lane Mark R Raymond and Thomas M Haladyna The Handbook of Test Development 2nd edition is based on the revised Standards for Educational and Psychological Testing and is appropriate for graduate courses and seminars that deal with test development and usage professional testing services and credentialing agencies state and local boards of education and academic libraries serving Reinventing STEM in Early Childhood Education Eugene Geist, 2025-05-09 Teaching STEM to young these groups children is about more than helping them learn their numbers and facts It is an important and complex process that to be effective should honor the way children s brains are developing This book outlines how early childhood educators can best support young children's STEM journeys as children naturally take in information about their environment synthesize it and grow in the process This comprehensive text details different theories of learning research on how young brains develop practical information on preparing your environment and yourself for teaching STEM to children guidance for supporting diverse populations of students and developmental guidelines sample standards resources and lesson plans Organized chronologically the book connects relevant STEM topics with each developmental age range and outlines common school standards for each grade Reinventing STEM in Early Childhood Education is meant to be a core text for preservice teachers

in math and science methods courses and is also important reading for teacher educators and professional development State Assessment Policy and Practice for English Language Learners Charlene Rivera, Eric Collum, 2014-05-12 programs State Assessment Policy and Practice for English Language Learners presents three significant studies each examining a different aspect of states strategies for including English language learners in state assessments an Analysis of State Assessment Policies Regarding Accommodations for English Language Learners a Survey and Description of Test Translation Practices and an Examination of State Practices for Reporting Participation and Performance of English Language Learners in State Assessments With the rise in population of English language learners and the subsequent stepped up legislative focus on this student population over the past decade states have been challenged to include English language learners in state assessment programs Until now the little data available on states policies and practices for meeting this challenge has been embedded in various reports and professional journals and scattered across the Internet This volume offers for the first time a focused examination of states assessment policies and practices regarding English language learners. The three studies were supported by OELA the U S Department of Education's Office of English Language Acquisition Language Enhancement and Academic Achievement for Limited English Proficient Students State Assessment Policy and Practice for English Language Learners is of interest to researchers and professionals involved with the assessment of English language learners state and district level policy makers and academics teacher educators and graduate students in a number of fields including educational and psychological assessment testing and measurement bilingual education English as a second language and second language acquisition Language Disorders from Infancy Through Adolescence - E-Book Rhea Paul, Courtenay Norbury, Carolyn Gosse, 2017-11-15 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Communication Sciences Disorders Spanning the entire childhood developmental period Language Disorders from Infancy Through Adolescence 5th Edition is the go to text for learning how to properly assess childhood language disorders and provide appropriate treatment The most comprehensive title available on childhood language disorders it uses a descriptive developmental approach to present basic concepts and vocabulary an overview of key issues and controversies the scope of communicative difficulties that make up child language disorders and information on how language pathologists approach the assessment and intervention processes This new edition also features significant updates in research trends social skills assessment and instruction best practices Clinical application focus featuring case studies clinical vignettes and suggested projects helps you apply concepts to professional practice UNIQUE Practice exercises with sample transcripts allow you to apply different methods of analysis UNIQUE Helpful study guides at the end of each chapter help you review and apply what you have learned Highly regarded lead author who is an expert in language disorders in children provides authoritative guidance on the diagnosis and management of pediatric language disorders More than 230 tables and boxes summarize important information such as dialogue examples sample assessment plans assessment and intervention

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A Smarter Charter Richard D. Kahlenberg, Halley Potter, 2014-09-19 Moving beyond the debate over whether or not charter schools should exist A Smarter Charter wrestles with the question of what kind of charter schools we should encourage The authors begin by tracing the evolution of charter schools from Albert Shanker's original vision of giving teachers room to innovate while educating a diverse population of students to today's charter schools where student segregation levels are even higher than in traditional public schools In the second half of the book the authors examine two key reforms currently seen in a small but growing number of charter schools socioeconomic integration and teacher voice that have the potential to improve performance and reshape the stereotypical image of what it means to be a charter school

Math Advantage Grace M. Burton, 1999 Making Sense of Learners Making Sense of Written Language Kenneth S. Goodman, Yetta M. Goodman, 2014-04-11 Ken and Yetta Goodman's professional work has been a lifelong collaboration informed by shared philosophical strands An overarching goal has been to provide access for all children to literacy and learning and to inform and improve teaching and learning Each also is recognized for specific areas of focus and is known for particular concepts This volume brings together a thoughtfully crafted selection of their key writings organized around five central themes research and theory on the reading process and written language development teaching curriculum and evaluation the role of language advocacy and the political nature of schooling In the World Library of Educationalists international scholars themselves compile career long collections of what they judge to be their finest pieces extracts from books key articles salient research findings major theoretical and practical contributions so the world can read them in a single manageable volume Readers will be able to follow the themes and strands of their work and see their contribution to the development of a field as well as the development of the field itself Setting the Standard for Project Based Learning John Larmer, John Mergendoller, Suzie Boss, 2015-05-26 Project based learning PBL is gaining renewed attention with the current focus on college and career readiness and the performance based emphases of Common Core State Standards but only high quality versions can deliver the beneficial outcomes that schools want for their students It s not enough to just do projects Today s projects need to be rigorous engaging and in depth and they need to have student voice and choice built in Such projects require careful planning and pedagogical skill The authors leaders at the respected Buck Institute for Education take readers through the step by step process of how to create implement and assess PBL using

a classroom tested framework Also included are chapters for school leaders on implementing PBL systemwide and the use of PBL in informal settings Examples from all grade levels and content areas provide evidence of the powerful effects that PBL can have including increased student motivation and preparation for college careers and citizenship better results on high stakes tests a more satisfying teaching experience and new ways for educators to communicate with parents communities and the wider world By successfully implementing PBL teachers can not only help students meet standards but also greatly improve their instruction and make school a more meaningful place for learning Both practical and inspirational this book is an essential guide to creating classrooms and schools where students and teachers excel **After the Education Wars** Andrea Gabor, 2018-06-12 The education wars have been demoralizing for teachers After the Education Wars helps us to see a better way forward Cathy N Davidson The New York Times Book Review After the Education Wars is an important book that points the way to genuine reform Diane Ravitch author of Reign of Error and The Death and Life of the Great American School System A bestselling business journalist critiques the top down approach of popular education reforms and profiles the unexpected success of schools embracing a nimbler more democratic entrepreneurialism In an entirely fresh take on school reform business journalist and bestselling author Andrea Gabor argues that Bill Gates Eli Broad and other leaders of the prevailing education reform movement have borrowed all the wrong lessons from the business world After the Education Wars explains how the market based measures and carrot and stick incentives informing today s reforms are out of sync with the nurturing culture that good schools foster and contrary to popular belief at odds with the best practices of thriving twenty first century companies as well These rich detailed stories of real reform in action illustrate how enduring change must be deeply collaborative and relentlessly focused on improvement from the grass roots up lessons also learned from both the open source software and quality movements The good news is that solutions born of this philosophy are all around us from Brockton Massachusetts where the state s once failing largest high school now sends most graduates to college to Leander Texas a large district where school improvement spurred by the ideas of quality guru W Edwards Deming has become a way of life A welcome exception to the doom and gloom canon of education reform After the Education Wars makes clear that what's needed is not more grand ideas but practical and informed ways to grow the best ones that are already transforming schools Teaching and Learning Secondary School Mathematics Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 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 **Learning from Latino Role Models** David Campos, 2016-04-06 Learning from Latino Role Models provides teachers with instructional resources that can be easily used in classroom settings so that they are culturally responsive to their Latino students The book has two parts Part I offers 20 sets of activities designed around Latino role models and aims to help students learn how Latinos offer unique contributions to this nation It is expected that these resources can help Latino schoolchildren find inspiration to realize their own goals Part II offers 20 sets of activities around select picture books that reflect the Latino community and cultural heritage The activities are designed to help children come to identify with the stories controlling themes as they address Latino culture history values and experiences In all the instructional sets are complete with questions that motivate critical thinking activity ideas that reinforce the meaning or the intended message of the story and vocabulary to enhance students communication skills Additionally each set comes with corresponding worksheets for the students to complete The SAGE Handbook of Outdoor Play and Learning Tim Waller, Eva Ärlemalm-Hagsér, Ellen Beate Hansen Sandseter, Libby Lee-Hammond, Kristi Lekies, Shirley Wyver, 2017-06-19 There has been a growing academic interest in the role of outdoor spaces for play in a child's development This text represents a coordinated and comprehensive volume of international research on this subject edited by members of the well established European Early Childhood Education Research Association Outdoor Play and Learning SIG OPAL Chapters written by authors from Europe North and South America Australasia and Asia Pacific countries are organised into six sections Theoretical Frameworks and Conceptual Approaches for Understanding Outdoor Play Learning Critical Reflections on Policy and Regulation in Outdoor Play Learning Children's Engagement with Nature Sustainability and Children's Geographies Diverse Contexts and Inclusion in Children's Outdoor Play Environments Methodologies for Researching Outdoor Play and Learning Links Between Research and Practice NASA EP. United States. National Aeronautics and Space Administration, 1982

Future Trends in East Asian International Relations Quansheng Zhao, 2014-03-18 The world has undergone significant change since the end of the Cold War One such development is that the Asia Pacific has become increasingly prominent in international affairs This comprehensive study provides a detailed understanding of key issues actors and future trends in the region Designing Teacher Evaluation Systems Thomas Kane, Kerri Kerr, Robert Pianta, 2014-06-03 WHAT IS EFFECTIVE TEACHING It's not enough to say I know it when I see it not when we re expecting so much more from students and teachers than in the past To help teachers achieve greater success with their students we need new and better ways to identify and develop effective teaching The Measures of Effective Teaching MET project represents a groundbreaking effort to find out what works in the classroom With funding by the Bill Melinda Gates Foundation the MET project brought together leading academics education groups and 3 000 teachers to study teaching and learning from every angle Its reports on student

surveys observations and other measures have shaped policy and practice at multiple levels This book shares the latest lessons from the MET project With 15 original studies some of the field s most preeminent experts tap the MET project s unprecedented collection of data to offer new insights on evaluation methods and the current state of teaching in our schools As feedback and evaluation methods evolve rapidly across the country Designing Teacher Evaluation Systems is a must read and timely resource for those working on this critical task PRAISE FOR DESIGNING TEACHER EVALUATION SYSTEMS This book brings together an all star team to provide true data driven policy relevant guidance for improving teaching and learning From student achievement to student perceptions from teacher knowledge to teacher practices the authors address key issues surrounding the elements of a comprehensive teacher evaluation and improvement system Highly recommended for anyone seriously interested in reform PETE GOLDSCHMIDT Assistant Secretary New Mexico Public Education Department This book is an invaluable resource for district and state leaders who are looking to develop growth and performance systems that capture the complexity of teaching and provide educators with the feedback needed to develop in their profession TOM BOASBERG Superintendent Denver Public Schools A rare example of practical questions driving top quality research and a must read for anyone interested in improving the quality of teaching ROBERT C GRANGER Former President Ret The William T Grant Foundation This will be the go to source in years to come for those involved in rethinking how teachers will be evaluated and how evaluation can and should be used to increase teacher effectiveness The superb panel of contributors to this book presents work that is incisive informative and accessible providing a real service to the national efforts around teacher evaluation reform JOHN H TYLER Professor of Education Brown University Stromal Cells: Preclinical and Clinical Challenges Joan Oliva, Josep M. Canals, Mayasari Lim, Simone Pacini, 2022-08-12

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Misplaced Blame Bonnie Johnson,2021-10-14 Misplaced Blame Decades of Failing Schools Their Children and Their Teachers examines the underlying causes of why schools fail The book describes the challenges that teachers and their pupils encounter in an environment that is dictated by poverty and harsh unfunded mandates The volume illustrates that school failure reflects a lack of opportunities nothing more The book also discusses the changing role of teachers over the years and teacher led efforts to improve their students circumstances

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