

Grade 4 Scientific Inquiry Task – States of Matter

Science Standards:

4.2 Interaction and Change: Living and non-living things undergo changes that involve force and energy.

4.2P.1 Describe physical changes in matter and explain how they occur.

4.3 Scientific Inquiry: Scientific inquiry is a process of investigation through questioning collecting, describing, and examining evidence to explain natural phenomena and artifacts.

4.3S.1 Based on observations, identify testable questions, design a scientific investigation, and collect and record data consistent with a planned scientific investigation.

4.3S.2 Summarize the results from a scientific investigation and use the results to respond to the question being tested.

Learning Targets:

- ☉ I can identify that temperature is a key factor in changing states of matter.
- ☉ I can explain why a change in matter occurs.

Language Targets:

- ☉ I can explain how water changes from a liquid to gas by making predictions and analyzing results.

Language Vocabulary: *cause-effect words*

Cause-effect words: due to, because of, since, led to, results in

Sentence Frames (examples):

Prediction/Hypothesis:

If water is under the direct sunlight/lamp, then the water will evaporate _____ than water that is placed in the shade.

Explanation:

_____ led to/resulted in _____.
(cause) (effect)

States Of Matter Performance Tasks

S Ben Porath



States Of Matter Performance Tasks:

Performance-Based Learning & Assessment in Middle School Science K. Michael Hibbard, 2014-05-22 This book contains a collection of performance tasks and easy to use assessment tools ready to be photocopied and distributed to your students The tasks in this book ask students to write letters prepare posters create charts and graphs prepare 3D models write skits take surveys and otherwise apply what they have learned **Designing and Using Performance Tasks** Tracey K.

Shiel, 2016-09-14 Stretch student thinking with performance based tasks With the continual increase of high stakes assessments also comes the surge of professional development on designing performance based tasks Providing step by step insights this book shows you how to incorporate performance tasks as a tool to teach monitor and extend student learning If you re ready to stretch your students thinking grab a copy of this how to guide to help you Make instructional decisions based on student performance of learning tasks Incorporate learning progressions as an integral part of planning performance tasks Close the knowing doing gap by focusing on considerations for successful implementation

Assignments Matter Eleanor Dougherty, 2012 Drawing from her extensive experience as a teacher coach author Eleanor Dougherty shows teachers and administrators how to craft high quality assignments and helps them understand the powerful impact that assignments can have on teaching and learning Systems for State Science Assessment National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Testing and Assessment, Committee on Test Design for K-12 Science Achievement, 2006-01-28 In response to the No Child Left Behind Act of 2001 NCLB Systems for State Science Assessment explores the ideas and tools that are needed to assess science learning at the state level This book provides a detailed examination of K 12 science assessment looking specifically at what should be measured and how to measure it Along with reading and mathematics the testing of science is a key component of NCLB it is part of the national effort to establish challenging academic content standards and develop the tools to measure student progress toward higher achievement The book will be a critical resource for states that are designing and implementing science assessments to meet the 2007 2008 requirements of NCLB In addition to offering important information for states Systems for State Science Assessment provides policy makers local schools teachers scientists and parents with a broad view of the role of testing and assessment in science education Performance Tasks and Rubrics for Upper Elementary Mathematics Charlotte Danielson, Joshua Dragoon, 2016-02-26 Performance tasks are highly effective tools to assist you in implementing rigorous standards But how do you create evaluate and use such tools In this bestselling book educational experts Charlotte Danielson and Joshua Dragoon explain how to construct and apply performance tasks to gauge students deeper understanding of mathematical concepts at the upper elementary level You ll learn how to Evaluate the quality of performance tasks whether you ve written them yourself or found them online Use performance tasks for instructional decision making and to prepare students for summative assessments Create your own performance tasks or adapt pre made

tasks to best suit students needs Design and use scoring rubrics to evaluate complex performance tasks Use your students results to communicate more effectively with parents This must have second edition is fully aligned to the Common Core State Standards and assessments and includes a variety of new performance tasks and rubrics along with samples of student work Additionally downloadable student handout versions of all the performance tasks are available as free eResources from our website www.routledge.com 9781138906969 so you can easily distribute them to your class

Performance Tasks and Rubrics for High School Mathematics Charlotte Danielson, Elizabeth Marquez, 2016-03-02 Performance tasks are highly effective tools to assist you in implementing rigorous standards But how do you create evaluate and use such tools In this bestselling book educational experts Charlotte Danielson and Elizabeth Marquez explain how to construct and apply performance tasks to gauge students deeper understanding of mathematical concepts at the high school level You ll learn how to Evaluate the quality of performance tasks whether you ve written them yourself or found them online Use performance tasks for instructional decision making and to prepare students for summative assessments Create your own performance tasks or adapt pre made tasks to best suit students needs Design and use scoring rubrics to evaluate complex performance tasks Use your students results to communicate more effectively with parents This must have second edition is fully aligned to the Common Core State Standards and assessments and includes a variety of new performance tasks and rubrics along with samples of student work Additionally downloadable student handout versions of all the performance tasks are available as free eResources from our website www.routledge.com 9781138906990 so you can easily distribute them to your class

Performance Tasks and Rubrics for Middle School Mathematics Charlotte Danielson, Elizabeth Marquez, 2016-03-02 Performance tasks are highly effective tools to assist you in implementing rigorous standards But how do you create evaluate and use such tools In this bestselling book educational experts Charlotte Danielson and Elizabeth Marquez explain how to construct and apply performance tasks to gauge students deeper understanding of mathematical concepts at the middle school level You ll learn how to Evaluate the quality of performance tasks whether you ve written them yourself or found them online Use performance tasks for instructional decision making and to prepare students for summative assessments Create your own performance tasks or adapt pre made tasks to best suit students needs Design and use scoring rubrics to evaluate complex performance tasks Use your students results to communicate more effectively with parents This must have second edition is fully aligned to the Common Core State Standards and assessments and includes a variety of new performance tasks and rubrics along with samples of student work Additionally downloadable student handout versions of all the performance tasks are available as free eResources from our website www.routledge.com 9781138906914 so you can easily distribute them to your class

Performance Tasks and Rubrics for Early Elementary Mathematics Charlotte Danielson, Pia Hansen, 2016-02-26 Performance tasks are highly effective tools to assist you in implementing rigorous standards But how do you create evaluate and use such tools In this bestselling book educational experts Charlotte

Danielson and Pia Hansen explain how to construct and apply performance tasks to gauge students deeper understanding of mathematical concepts at the early elementary level You ll learn how to Evaluate the quality of performance tasks whether you ve written them yourself or found them online Use performance tasks for instructional decision making and to prepare students for summative assessments Create your own performance tasks or adapt pre made tasks to best suit students needs Design and use scoring rubrics to evaluate complex performance tasks Use your students results to communicate more effectively with parents This must have second edition is fully aligned to the Common Core State Standards and assessments and includes a variety of new performance tasks and rubrics along with samples of student work Additionally downloadable student handout versions of all the performance tasks are available as free eResources from our website www.routledge.com/97811389069891 so you can easily distribute them to your class America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished **Educating One and All** National Research Council, Division of Behavioral and Social Sciences and Education, Board on Testing and Assessment, Committee on Goals 2000 and the Inclusion of Students with Disabilities, 1997-06-27 In the movement toward standards based education an important question stands out How will this reform affect the 10% of school aged children who have disabilities and thus qualify for special education In *Educating One and All* an expert committee addresses how to reconcile common learning for all students with individualized education for one the unique student The book makes recommendations to states and communities that have adopted standards based reform and that seek policies and practices to make reform consistent with the requirements of special education The committee explores the ideas implementation issues and legislative initiatives behind the tradition of special education for

people with disabilities It investigates the policy and practice implications of the current reform movement toward high educational standards for all students Educating One and All examines the curricula and expected outcomes of standards based education and the educational experience of students with disabilities and identifies points of alignment between the two areas The volume documents the diverse population of students with disabilities and their school experiences Because approaches to assessment and accountability are key to standards based reforms the committee analyzes how assessment systems currently address students with disabilities including testing accommodations The book addresses legal and resource implications as well as parental participation in children s education

Effective Practices in Online Teacher Preparation for Literacy Educators Karchmer-Klein, Rachel, Pytash, Kristine E., 2019-10-11 Online education has become a prevalent means of program and course delivery especially within teacher education programs However the lack of preparation in online design is concerning especially in the field of teacher education where the focus is preparing preservice and practicing teachers to implement effective evidence based instructional strategies Effective Practices in Online Teacher Preparation for Literacy Educators is an essential scholarly resource that shares innovative ideas for translating face to face reading literacy specialist preparation into effective online instruction for courses in literacy education Highlighting various topics such as instructional design teacher education and literacy assessment this book is ideal for instructors curriculum developers instructional designers IT specialists education professionals instructors administrators academicians and researchers

Meeting the Challenges to Measurement in an Era of Accountability Henry Braun, 2016-01-29 Under pressure and support from the federal government states have increasingly turned to indicators based on student test scores to evaluate teachers and schools as well as students themselves The focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests such as in mathematics or English language arts with a focus on grades 4-8 Teachers in these subject areas however constitute less than thirty percent of the teacher workforce in a district Comparatively little has been written about the measurement of achievement in the other grades and subjects This volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas with particular attention to their use in the evaluation of teachers and schools in all It addresses traditional end of course tests as well as alternative measures such as portfolios exhibitions and student learning objectives In each case issues related to design and development psychometric considerations and validity challenges are covered from both a generic and a content specific perspective The NCME Applications of Educational Measurement and Assessment series includes edited volumes designed to inform research based applications of educational measurement and assessment Edited by leading experts these books are comprehensive and practical resources on the latest developments in the field The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

Technical Issues in Large-scale Performance Assessment Gary W.

Phillips,1996 **21st Century Education: A Reference Handbook** Thomas L Good,2008-10-02 Via 100 entries or mini chapters the SAGE 21st Century Reference Series volumes on Education will highlight the most important topics issues questions and debates any student obtaining a degree in the field of education ought to have mastered for effectiveness in the 21st Century *How to Teach Thinking Skills* James A. Bellanca,Robin J. Fogarty,Brian M. Pete,2019-09-20 Ensure your students develop the complex higher order thinking skills they need to not just survive but thrive in a 21st century world The latest edition of this best selling guide by James A Bellanca Robin J Fogarty and Brian M Pete details a three phase teaching model and dives deep into how to teach seven key student proficiencies critical thinking creative thinking complex thinking comprehensive thinking collaborative thinking communicative thinking and cognitive transfer How to teach higher order thinking skills for student engagement and achievement Receive guidance on teaching higher order thinking skills according to any given standard including state standards and content area standards Learn how to weave thinking skills and technology into your existing teaching strategies and lesson plans Understand how to adapt lessons for various grade levels and subjects Gain questions to reflect on after lessons to ensure that students learn at the highest levels and grow their problem solving and innovative thinking Attain tools and reproducibles to facilitate learning and understanding of teaching critical thinking and other 21st century skills Contents Acknowledgments Table of Contents About the Authors Introduction Student Proficiency 1 Critical Thinking Chapter 1 Analyze Chapter 2 Evaluate Chapter 3 Problem Solve Student Proficiency 2 Creative Thinking Chapter 4 Generate Chapter 5 Associate Chapter 6 Hypothesize Student Proficiency 3 Complex Thinking Chapter 7 Clarify Chapter 8 Interpret Chapter 9 Determine Student Proficiency 4 Comprehensive Thinking Chapter 10 Understand Chapter 11 Infer Chapter 12 Compare and Contrast Student Proficiency 5 Collaborative Thinking Chapter 13 Explain Chapter 14 Develop Chapter 15 Decide Student Proficiency 6 Communicative Thinking Chapter 16 Reason Chapter 17 Connect Chapter 18 Represent Student Proficiency 7 Cognitive Transfer Chapter 19 Synthesize Chapter 20 Generalize Chapter 21 Apply Appendix A Appendix B Appendix C Appendix D Glossary References Resources Index **Essentials of Science Classroom Assessment** Xiufeng Liu,2010 Grounded in the constructivist inquiry approach to science teaching and learning Essentials of Science Classroom Assessment bridges science assessment research and practice and connects science assessment and learning This book will help students in science methods courses to develop essential skills in conducting science assessment to support student learning The chapters parallel a typical structure of a science methods course making the integration of this text into a science methods course seamless Due to its practical and concise nature this book is also ideal for practicing science teachers to use as a professional development resource State of Wisconsin Blue Book ,1989 The State of Wisconsin Blue Book ,1987 **Computers and Their Impact on State Assessments** Robert W. Lissitz,Hong Jiao,2012-05-01 The Race To The Top program strongly advocates the use of computer technology in assessments It dramatically promotes computer based testing linear or adaptive in K 12 state assessment programs

Moreover assessment requirements driven by this federal initiative exponentially increase the complexity in assessment design and test development This book provides readers with a review of the history and basics of computer based tests It also offers a macro perspective for designing such assessment systems in the K 12 setting as well as a micro perspective on new challenges such as innovative items scoring of such items cognitive diagnosis and vertical scaling for growth modeling and value added approaches to assessment The editors goal is to provide readers with necessary information to create a smarter computer based testing system by following the advice and experience of experts from education as well as other industries This book is based on a conference <http://marces.org/workshop.htm> held by the Maryland Assessment Research Center for Education Success It presents multiple perspectives including test vendors and state departments of education in designing and implementing a computer based test in the K 12 setting The design and implementation of such a system requires deliberate planning and thorough considerations The advice and experiences presented in this book serve as a guide to practitioners and as a good source of information for quality control The technical issues discussed in this book are relatively new and unique to K 12 large scale computer based testing programs especially due to the recent federal policy Several chapters provide possible solutions to psychometricians dealing with the technical challenges related to innovative items cognitive diagnosis and growth modeling in computer based linear or adaptive tests in the K 12 setting

Wisconsin Session Laws Wisconsin, 1976

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