1. Record Nr. UNINA9910815548203321 Autore Hammerman Elizabeth L. **Titolo** Integrating science with mathematics & literacy: new visions for learning and assessment / / Elizabeth Hammerman, Diann Musial; foreword by Robert E. Yager Thousand Oaks, CA:,: Corwin Press,, [2008] Pubbl/distr/stampa ©2008 **ISBN** 1-4522-9508-5 1-4522-9814-9 Edizione [Second edition.] Descrizione fisica 1 online resource (200 p.) Altri autori (Persone) HammermanElizabeth L Disciplina 507.1 Soggetti Science - Study and teaching - Activity programs Science - Ability testing Mathematics - Study and teaching Language arts Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Revised edition of: Classroom 2061. 1995. Note generali Nota di bibliografia Includes bibliographical references and index. ""Cover""; ""Contents""; ""Foreword""; ""Acknowledgments""; ""About the Nota di contenuto Authors""; ""Introduction""; ""Assessing Understanding""; ""Components of Meaningful Performance Tasks"": ""The Performance Tasks in This Book"": ""Whata€?s New in This Edition"": ""Part I - Theory"": ""Chapter 1 - What is Science?""; ""Scientific Literacy""; ""Concept Understanding""; ""Process Skills and Thinking Strategies""; ""Habits of Mind""; ""Science-Technology-Society Connections""; ""Methods of Teaching Science""; ""Chapter 2 - New Visions for Mathematics and Language Literacy"": ""The Vision for Mathematics"" ""Mathematical Literacy and Mathematical Power"""Mathematics Understandinga€?Big Ideas""; ""Mathematical Thinking or Process Standards""; ""Mathematics Tools and Techniques""; ""Communication Skills""; ""The Vision for Language Literacy""; ""Implications for Teaching and Assessment in Mathematics and Language Literacy""; ""Chapter 3 -Developing Rubrics for Teaching and Assessing Performance Tasks""; ""Rubrics""; ""Holistic Rubrics""; ""Generalized Rubrics""; ""Analytic

Rubrics""; ""Rubrics for the Performance Assessments in This Book""

""Chapter 4 - Putting it all Together: Integrated Performance Tasks for Learning and Assessment"""A Call for Reform"; ""Assessment Strategies That Provide Feedback to Teachers and Students": ""Designing Integrated Performance Tasks for Learning and Assessment""; ""An Invitation""; ""Part II - Application""; ""Chapter 5 -Adventuring Back in Time""; ""Performance Activity 1: Can You Dig It?""; ""Performance Activity 2: Now, Picture This""; ""Performance Activity 3: Herea€?s Looking at You, Kid""; ""Criterion-Referenced Test: Adventuring Back in Time"" ""Writing Prompt: Making a Photographic Journal"""Analytic Rubric: Adventuring Back in Time""; ""Chapter 6 - The Dog-Washing Business""; ""Performance Activity 1: The Hot and Cold of Dog Washing""; ""Performance Activity 2: Time and Temperature""; ""Performance Activity 3: Setting Up Business""; ""Criterion-Referenced Test: The Dog-Washing Business""; ""Writing Prompt: Advertising Our Business""; ""Analytic Rubric: The Dog-Washing Business""; ""Chapter 7 - May the Force Be With You""; ""Performance Activity 1: Metals That Attract""; ""Performance Activity 2: Close Encounters"" ""Performance Activity 3: Coming Attractions"""Criterion-Referenced Test: May the Force be with You""; ""Writing Prompt: A Friend in Need""; ""Analytic Rubric: May the Force be with You"": ""Chapter 8 - Water. Water Everywhere""; ""Performance Activity 1: Water Cycle Observations""; ""Performance Activity 2: Comparing Water Cycles""; ""Performance Activity 3: A Salty Experience""; ""Criterion-Referenced Test: Water, Water Everywhere"; ""Writing Prompt: Acid Rain""; ""Analytic Rubric: Water, Water Everywhere""; ""Chapter 9 - A Wholesome Partnership"" ""Performance Activity 1: Sum-Thing Fruitful""

Sommario/riassunto

Features tasks that model inquiry-based science and helps teachers evaluate learners' acquisition of complex thinking skills, aptitude for science, and ability to make real-world connections.