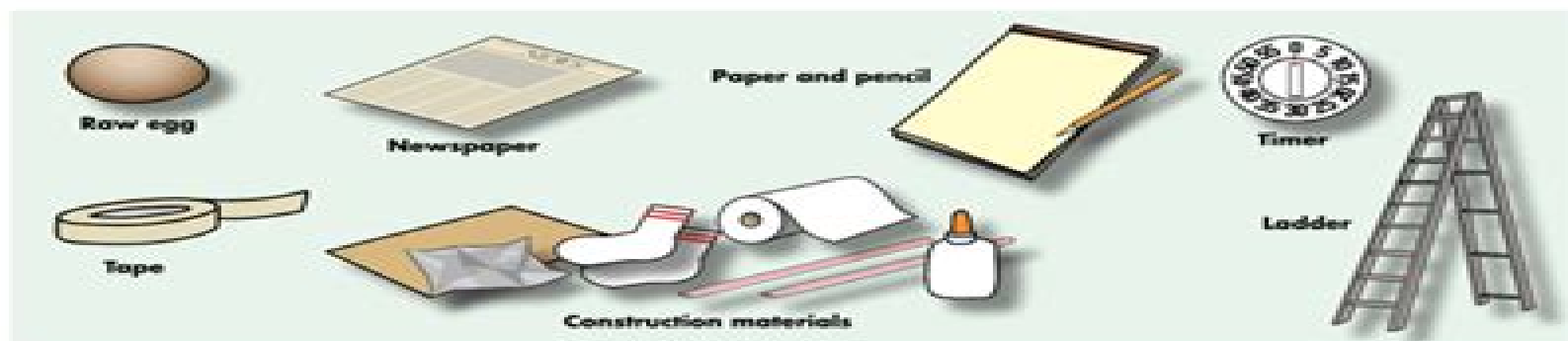


Egg Drop Challenge

Find What You Need...

- Raw egg
- Sheet of newspaper
- Masking tape
- Some of the following materials: cardboard, cotton, toilet paper, socks, glue, straws, plastic bags, balloons, material scraps
- Paper and pencil to record process and results
- A ladder or a second-story window to drop the egg from
- Timer
- Scale (optional)



Can you design a package that keeps an egg from breaking when it is dropped from 10 feet in the air?

Although it's important not to use too much packaging, some packaging is necessary. If certain kinds of products are not packaged, they will go bad or break while being transported. The trick is to use packaging that is strong but sustainable – packaging that won't harm the environment – and to use as little packaging as possible to get the job done. Your job is to make a sustainable package that is strong enough to keep your egg in one piece while using as little packaging as possible.

Wrap Rap:

At the Ontario Science Center, scientists were able to stand a 200-pound person on an egg without breaking the egg. How did they do it? The domed shape of the egg makes the arch on top incredibly strong. The dome pushes out the weight so that the weight is spread out evenly down all sides of the egg and into the floor below. When you spread out the weight evenly, it's much easier to hold up.

Elementary School Egg Drop Challenge

Pasquale De Marco



Elementary School Egg Drop Challenge:

The Science Teacher's Toolbox Tara C. Dale, Mandi S. White, 2020-04-09 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Science Teacher s Toolbox is a classroom tested resource offering hundreds of accessible student friendly lessons and strategies that can be implemented in a variety of educational settings Concise chapters fully explain the research basis necessary technology Next Generation Science Standards correlation and implementation of each lesson and strategy Favoring a hands on approach this book provides step by step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately Lessons cover topics such as setting up labs conducting experiments using graphs analyzing data writing lab reports incorporating technology assessing student learning teaching all ability students and much more This book enables science teachers to Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators The Science Teacher s Toolbox Hundreds of Practical Ideas to Support Your Students is an invaluable aid for upper elementary middle school and high school science educators as well those in teacher education programs and staff development professionals

STEM-Infusing the Elementary Classroom Miranda Talley Reagan, 2016-02-19 Make learning relevant with STEM essential questions Planning interdisciplinary STEM lessons that meet K 5 grade level expectations can be a challenge How do you fit it all in In this engaging well organized guide STEM instructional trailblazer Miranda Reagan provides a teacher friendly research based guide to quickly and confidently infuse STEM concepts across content areas Real world vignettes sample lessons and templates discussion questions and immediately applicable action steps help you seamlessly promote college and career ready skills This inspiring guide helps teachers use STEM infused interdisciplinary instruction to Deepen all content areas including English Language Arts Promote the 4Cs communication collaboration critical thinking and creativity Require students to take risks to solve problems Differentiate instruction and scaffold support Expand students specific measurable capabilities Incorporate design skills into the curricula Save valuable time and confidently develop standards aligned STEM projects across all content areas with this breakthrough guide Spirited Teachers Eliciting Memories Miranda s book is an inspiration for the elementary teacher who wants to begin using STEM in the classroom She has answered all of the but what ifs and the I m not sures and given teachers the answers to the hows and whys it will work Dr Jill C Mertz Adjunct Professor of Education at Maryville College Maryville TN After reading this book

infusing STEM into your elementary classroom will be as easy as 1 2 3 A B C Susan Schipper Elementary Teacher Charles Street School Palmyra NJ Teaching Elementary STEM Education Sherri Cianca,2019-07-19 This textbook offers practical guidelines for integrating science technology engineering and mathematics into the elementary classroom in the context of addressing real world problems and cultivating in students high level thinking and problem solving skills Designed to equip teachers and future teachers with tools to create and implement standards based STEM curriculum and cognitively demanding tasks author Sherri Cianca offers hands on easily implemented strategies that foster student reasoning autonomy and humanity This fresh approach to STEM teaching empowers teachers preservice and inservice and other leaders to better understand the standards and better design effective instructional practices The chapters work together to advance teachers abilities to achieve mastery level understanding of content translate standards into student friendly curriculum and create a robust learning environment Each chapter contains probes to uncover incomplete and inaccurate conceptions and to focus attention on key learning elements Chapter summaries and Reflect and Apply sections reinforce professional development and appendices expand on chapter content and provide rich examples of STEM units curriculum and assessment criteria Dr Cianca s vision is that teachers serve as well equipped change agents that will empower their students to transfer STEM learning into applications that will impart a positive impact on our future world *Multiple Intelligences in the Elementary Classroom* Susan Baum,Julie Viens,Barbara Slatin,2005-08-26 This book will help teachers design effective curriculum for their students with diverse learning abilities The authors have created a guided process to apply MI theory to the elementary school classroom The five pathways or approaches examined Exploration Bridging Understanding Authentic Problems and Talent Development represent the ways in which MI can be implemented and nurtured across the elementary grades The Pathways Model promotes and supports the development of a well grounded understanding of MI theory to inform goal setting and planning for using multiple intelligences theory in the classroom Each pathway addresses a different set of goals and provides appropriate guidelines and examples *The SAGE Handbook of Curriculum, Pedagogy and Assessment* Dominic Wyse,Louise Hayward,Jessica Pandya,2015-12-03 The research and debates surrounding curriculum pedagogy and assessment are ever growing and are of constant importance around the globe With two volumes containing chapters from highly respected researchers whose work has been critical to understanding and building expertise in the field The SAGE Handbook of Curriculum Pedagogy and Assessment focuses on examining how curriculum is treated and developed and its impact on pedagogy and assessment worldwide The Handbook is organised into five thematic sections considering The epistemology and methodology of curriculum Curriculum and pedagogy Curriculum subjects Areas of the curriculum Assessment and the curriculum The curriculum and educational policy The SAGE Handbook of Curriculum Pedagogy and Assessment s breadth and rigour will make it essential reading for researchers and postgraduate students around the world

The Journey of the Egg: A Transformative Odyssey Through Time Pasquale De Marco,2025-03-21 From the depths

of the cosmos to the intricacies of life on Earth The Journey of the Egg embarks on an odyssey through time exploring the profound significance of this remarkable entity Delve into the ancient beliefs and legends that have swirled around the egg unraveling its symbolic power and cosmic meaning Discover the egg s pivotal role in the natural world as a source of sustenance a symbol of renewal and a canvas for artistic expression Journey through the annals of human history where the egg has left an indelible mark on art literature science and technology Explore the culinary delights and cultural traditions that have sprung from this humble yet extraordinary food source Uncover the egg s contributions to scientific discoveries and medical advancements and its potential for shaping a sustainable future Witness the egg s enduring presence across diverse cultures from ancient civilizations to modern societies Unravel the intricate symbolism and folklore associated with the egg and its role in shaping human beliefs and practices Discover the egg s significance in different religious and spiritual traditions and its ability to bridge divides and foster unity Through captivating storytelling and thought provoking insights The Journey of the Egg unveils the hidden wonders of this seemingly ordinary object Prepare to be amazed by the egg s resilience its capacity for transformation and its profound impact on our planet and its inhabitants Join us on this extraordinary voyage as we celebrate the egg s enduring legacy and embark on a journey of discovery that will change the way you perceive this remarkable gift of nature If you like this book write a review

Connecting Cultures Rebecca L. Thomas,1996-01-30 A comprehensive guide to multicultural literature for children this valuable resource features more than 1 600 titles including fiction folktales poetry and song books that focus on diverse cultural groups The selected titles published between the 1970s and 1990s are suitable for use with preschoolers through sixth graders and are likely to be found on the shelves of school and public libraries Topics are timely with an emphasis on books that reflect the needs and interests of today s children Each detailed entry includes bibliographic information Use level is also included as are cultural designation subjects and a summary The invaluable Subject Access section incorporates use level culture information

Resources in Education ,1998 Science and Technical Education United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Science, Research, and Technology,1990 **The Accelerated Schools Resource Guide** Wendy S. Hopfenberg,1993-10-29 The Resource Guide has been created to serve as a sourcebook on the accelerated school it provides background and supportive information that can be used in conjunction with training to launch and sustain an accelerated school Introduction 2 STEAM Makers Jacie Maslyk,2016-02-17 Build the essential 4 creativity collaboration communication and critical thinking Go beyond theory and learn how to systematically integrate STEAM and Maker spaces that prepare students for real world experiences This engaging resource outlines step by step processes to help anyone start their STEAM and Maker journey Includes charts checklists web links and profiles to help you make meaningful subject area connections and tap your students natural curiosity You ll learn to Integrate STEAM and Making into daily practice Differentiate instruction for all learners Align with core standards and The Next Generation Science Standards

Improving School Climate & Culture Peggy Gonder, 1994 Climate and culture are inherent in the life of every organization including schools. They are difficult to define and even more difficult to change yet any reform effort must address them first if it is to succeed. This report helps school leaders understand these crucial factors and measure their influences on the school. It offers various strategies for implementing school improvement efforts that work. Chapter 1 provides an overview of the terms climate and culture and chapter 2 offers definitions of the terms. Leadership roles played by the principal, superintendent, and school board are examined in Chapter 3. Chapter 4 describes and offers examples of holistic restructuring strategies such as shared decision making stages in the strategic planning process, the Outcomes Based Education (OBE) model, and the Coalition for Essential Schools model. Chapter 5 discusses ways to shape climate through instructional techniques. Various methods for measuring school climate are explored in chapter 6. Chapters 7 through 9 offer strategies for engaging parents and community members, dealing with the personal concerns of those involved with program implementation, and mobilizing channels of communication. A brief bibliography and list of contact resources are included.

LMI Science Fairs Plus, 2003 The articles explore all aspects of getting ready for a science fair. You'll learn how to help students pick their projects, understand what makes for fair judging, and create innovative alternatives. Highly practical and wide ranging, Science Fairs Plus may be the only guide you'll ever need to run successful fairs at your school.

The Struggle for Justice, Equity, and Peace in the Global Classroom McClean, Marva, 2023-06-23 In the current state of global upheaval with the rallying call for human rights and justice for people who have been historically marginalized, the curriculum must be decolonized to ensure that children identified as marginalized and at risk are receiving an equitable education that is based on respect and acceptance of their cultural heritage as well as their human rights. The Struggle for Justice, Equity, and Peace in the Global Classroom investigates the global classroom as a site of transformation for educators who dare to take action to replace oppressive and repressive practices with emancipatory strategies grounded in critical consciousness. The book's contents convey the pluralism that defines America and the world, investigating how educators can re-envision the future through an engagement with the past and an understanding of how the historical continuities of racial intolerance and social injustice continue to impact classroom teaching and the outcomes of children whose lives are shaped by the aftermath of slavery and oppression. Covering topics such as colonial education, inclusive classrooms, and student agency, this premier reference source is an excellent resource for teachers, school administrators, literary scholars, community activists, teacher educators, preservice teachers, researchers, and academicians.

Junk Drawer Engineering Bobby Mercer, 2017-05-01 There's no need for expensive high-tech materials to test your engineering skills; you probably have all you need in your home junk drawer. Each hands-on project in this book will challenge you to come up with a unique solution to a specific design problem. Construct a Pasta Bridge strong enough to support a heavy load using only dry linguini and glue. Build a Marble Roller Coaster from recycled cardboard tubes in which the marble car jumps a track to land safely at its final destination. Or

design an Egg Catch device to safely capture a free falling egg Test yourself or use them for friendly competitions who can come up with the best solution These 25 open ended design challenges can be performed for just pennies or less Each project has a suggested materials list step by step instructions with illustrations for one possible solution and suggestions on how to adapt each challenge for different ages and skill levels Educators and parents will find this title a handy resource to teach children problem solving skills and applied physics all while having a lot of fun *Helping Students who Struggle with Math and Science* Dennis Adams,Mary Hamm,2008 This book provides teachers with research based and standards driven techniques that are especially useful for reaching all students in the classroom Annual Performance Report ,1998

Brain-Compatible Learning for the Block R. Bruce Williams,Steven E. Dunn,2007-12-14 Provides a clear understanding of the instructor s responsibilities when teaching in the block explains what a brain compatible class looks like and gives sample lesson plans Randy Thompson Educational Consultant Educators who teach in a school system that utilizes block scheduling will find this text very useful Melissa Awenowicz Coordinator of Field Placement University of Pittsburgh Use brain friendly teaching strategies to maximize the benefits of extended time formats Believing that block scheduling is one of the best environments for applying brain compatible instructional methods the authors have compiled a rich resource to show both novice and veteran teachers how to use brain friendly strategies in extended time periods to deliver highly effective instruction and enhance learning for all students A practical toolbox for teaching in block schedule formats Brain Compatible Learning for the Block Second Edition focuses on a four phase lesson model of inquiring gathering processing and applying This approach helps learners identify what they already know about the concepts or skills to be covered in the lesson collect new information related to the lesson topic engage in activities that will help the brain store new information and transfer what they ve learned to real life settings Written for middle school and high school educators this second edition Provides detailed sample lesson plans Examines how extended time formats impact student achievement Illustrates how to focus the learning experience for students Explores various alternative scheduling formats Offers updated research related to brain based learning and block scheduling This book provides educators with concrete and accessible ideas for combining brain based strategies with extended time formats and is an essential resource for making the most of block scheduling

Catalog. Supplement - Food and Nutrition Information and Educational Materials Center Food and Nutrition Information and Educational Materials Center (U.S.),1973 *The Great Egg Drop Science Experiment* Dwayne Booker,2019-12-15 Anyone can learn computer science even at the elementary school level This book delves into the essential computer science concept of debugging using age appropriate language and colorful illustrations A meaningful storyline is paired with an accessible curricular topic to engage and excite readers This book introduces readers to a relatable character and familiar situation which demonstrates how debugging is used in everyday life Readers will follow a narrator as she tries to fix a problem with her science project This fiction title is paired with the nonfiction title What s

Wrong with the Experiment ISBN 9781538352328 The instructional guide on the inside front and back covers provides Vocabulary Background knowledge Text dependent questions Whole class activities and Independent activities

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