

Using Tables, Charts, and Graphs

Overview

Students practice some basic graphing skills, using data they collected and data from a table.

Related Standards of Learning 3.1g

Objectives

The students should be able to

- communicate results of investigations by displaying data in the form of tables, charts, and graphs;
- construct bar graphs, picture graphs, and line plots to display data.

Materials needed

- Aquarium filled with water
- A dime, a penny, a nickel, and a quarter
- Several stopwatches or a clock with visible second hand

Per student:

- Science journal
- Pencil
- "Bar and Picture Graph Scoring Sheet" handout (see p. 3)
- "Line Plot Scoring Sheet" handout (see p. 4)

Instructional activity

Content/Teacher Notes

Third-grade students should use graphs frequently in math and science classes. Many of the scientific investigations that students conduct throughout the year are good opportunities to incorporate graphing into the class activity.

Introduction

1. Ask students to predict which coin would fall faster through an aquarium filled with water: a dime, a penny, a nickel, or a quarter. Ask them how they might test their hypothesis, and take their responses. Then ask them how data for such an experiment might be recorded. Lead students to realize that data tables and graphs can be used to record and display such data.

Procedure

1. Before beginning the activity, have students construct a table in their journal similar to the one shown at right to record the data they will be collecting.

Time for Coins to Fall through Water				
Coin	Drop 1 time (sec.)	Drop 2 time (sec.)	Drop 3 time (sec.)	Drop 4 time (sec.)
Penny				
Nickel				
Dime				
Quarter				

2. Designate one student to be the dropper of the coins for the class, and designate several students to be timers. These students should time how long it takes the coin to fall from just above the surface of the water to the bottom of the tank. Time should begin the moment the coin leaves the dropper's hand. The dropper should execute the same procedure for each drop to keep the experiment fair.
3. Have students conduct at least four trials for each coin and record the data in their table.

Tables Charts And Graphs Lesson Plans

**Kerry P. Holmes, Jerilou J. Moore, Stacy
V. Holmes**



Tables Charts And Graphs Lesson Plans:

The Educator's Handbook for Teaching with Primary Sources Scott M. Waring, 2023 Educators across subject areas are striving to integrate primary sources into their pedagogy and teaching Yet despite their importance to authentic disciplined inquiry the implementation of primary source activities in the pre K 12 classroom has been limited This lack of utilization can largely be attributed to the perception that these activities are too complex to design implement and grade Many teachers also feel that primary source analysis and the construction of evidence based narratives is too difficult for students to complete in the traditional classroom Waring argues that this is not the case and with this handbook provides teacher candidates and inservice teachers with detailed and specific perspectives activities approaches and resources to help them effectively and authentically use primary sources in their classrooms Book Features Introduces teaching with primary sources including detailed examples of authentic and tested instructional ideas and approaches Designed to meet the needs of classroom teachers and teacher candidates in social studies English and language arts mathematics science and other fields Offers dozens of primary sources and links to resources throughout the book Aligns to national standards frameworks and the C3 framework for social studies Can be used to meet the needs of emerging English learners and students with special needs Focuses on ways in which educators are utilizing a variety of emerging technologies to engage students in deeper and more authentic ways of learning SCIENCE PROJECTS IN RENEWABLE ENERGY AND ENERGY EFFICIENCY , The Value of Science Projects Science projects are an especially effective way of teaching students about the world around them Whether conducted in the classroom or for a science fair science projects can help develop critical thinking and problem solving skills In a classroom setting science projects offer a way for teachers to put action into the lessons The students have fun while they re learning important knowledge and skills And the teacher often learns with the students experiencing excitement with each new discovery Science projects are generally of two types non experimental and experimental Non experimental projects usually reflect what the student has read or heard about in an area of science By creating displays or collections of scientific information or demonstrating certain natural phenomena the student goes through a process similar to a library research report or a meta analysis in any other subject Projects of this type may be appropriate for some students at a very early level but they usually do not provide the experiences that develop problem solving skills related to the scientific process On the other hand experimental projects pose a question or hypothesis which is then answered by doing an experiment or by modeling a phenomenon The question doesn t have to be something never before answered by scientist that is not necessary to conduct original research The process of picking a topic designing an experiment and recording and analyzing data is what s important Resources for Teaching Elementary School Science National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution, 1996-03-28 What activities might a teacher use to help children explore the life cycle of butterflies What does a science teacher need to

conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in Resources for Teaching Elementary School Science A completely revised edition of the best selling resource guide Science for Children Resources for Teachers this new book is an annotated guide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education Resources for Teaching Elementary School Science also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations and parents *Resources in Education* ,1999 **Lessons for a Scientific**

Literature Review Randell K. Schmidt, Maureen M. Smyth, Virginia K. Kowalski, 2008 Based on a collaborative inquiry based project co conducted and graded by science teachers and school librarians at Gill St Bernard s school this book presented in workshop format furnishes all the material necessary to enable school librarians and high school science teachers to collaboratively teach the important topic of how to perform and write up a scientific literature review Students choose a topic of personal interest linked to their science class subject s The school librarian and science teachers instruct students in how to perform the necessary research and how to successfully integrate the new information into a final product This book will present an overview of the project including a discussion of the value of inquiry based research detailed project lessons student assignments and a concluding discussion of unit assessment Grades 9 14 *Real Data Resources for Teachers* ,1995

A Sensory Approach to STEAM Teaching and Learning Kerry P. Holmes, Jerilou J. Moore, Stacy V.

Holmes,2023-04-27 Did you know you have the power and the materials at your fingertips to facilitate the actual brain growth of students This book is a practical resource to engage K 6 students with STEAM content through their five senses seeing listening touch movement smell and taste It combines historical research practical suggestions and current practices on the stages of cognitive development and the brain s physical response to emotion and novelty to help you learn ways to transform ordinary lesson plans into novel and exciting opportunities for students to learn through instruction exploration inquiry and discovery In addition to providing examples of sensory rich unit plans the authors take you through the step by step process on how to plan a thematic unit and break it down into daily seamless lesson plans that integrate science technology engineering arts and mathematics With 25 themed STEAM unit plans and activities based on national standards up to date research on brain science and real classroom experience this book shows multiple ways to develop and deliver active multisensory activities and wow your students with sights and sounds as soon as they come through the door of your classroom

ENC Focus ,2000 **Social Studies for the Twenty-First Century** Jack Zevin,2013-08-21 Social Studies for the Twenty First Century Third Edition weaves theory curriculum methods and assessment into a comprehensive model to guide middle and secondary teachers in setting objectives planning lessons units and courses choosing classroom strategies and constructing tests for some of the field s most popular and enduring programs It offers practical interesting exciting ways to teach social studies and a multitude of instructional and professional resources for teachers The text includes separate chapters on teaching each of the major areas of the social studies curriculum Its reflective and integrative framework emphasizes building imagination insight and critical thinking into everyday classrooms encourages problem solving attitudes and behavior and provokes analysis reflection and debate Throughout the text all aspects of curriculum and instruction are viewed from a tripartite perspective that divides social studies instruction into didactic factual reflective analytical and affective judgmental components These three components are seen as supporting one another building the groundwork for taking stands on issues past and present At the center is the author s belief that the heart and soul of social studies instruction perhaps all teaching lies in stimulating the production of ideas looking at knowledge from others viewpoints and formulating for oneself a set of goals values and beliefs that can be explained and justified in open discussion New in the Third Edition Summaries of recent research particularly in history education that have been published since the last edition Increased attention to social studies standards as well as those for civics economics and history An enriched view of teaching history and social studies with a wide array of sources ranging from material objects through primary sources on to art music and literature Tightening of the text to make it shorter and more pointed including a few provocative new ideas More and better organized ideas for classroom group and individual activities and cooperative learning Expanded appendices on instructional resources include the rapidly growing use of websites New visuals that are better integrated into the text and which teachers can use in their classrooms as lessons in visual literacy and Continued efforts to inject a bit of humor and

self criticism into a field of education most students view as a sizeable trunk of dead and deadly facts Social Studies for the Twenty First Century Third Edition is a primary text for secondary and middle social studies methods courses **Field Manual** United States. Department of the Army,1962 Field Manuals United States. War Department,1972 **A Book For Every Teacher** Nan Li,2015-03-01 A Book for Every Teacher Teaching English Language Learners is a unique and compressive text written for mainstream classroom teachers The passion for writing this book comes from our working experiences with the K 12 teachers in four school districts through our ELL Center professional development program Through this program we provide professional training through our federally funded research and service projects The purpose of our professional training is to prepare general education teachers to work effectively with English language learners ELLs While working with the teachers on a daily basis we know the immediate needs of the teachers This motivated us to embark this book project In recent years the ELL school population has the highest increase among school populations As the NEA data indicates providing ELL students with high quality services and programs is an important investment in America s future NEA 2013 This book is our investment in helping teachers to meet their challenges and provide useful information and strategies for teaching ELLs The book is designed with K 12 teachers in mind It is best used by teachers who have or will have ELLs in their classrooms and who seek information and strategies to better work with and serve their ELLs to achieve academic success With this design teachers can use the book as a text or reference tool This book can also be adopted as text materials for professional training Teachers are the most important factor for ELLs academic success St. Louis Plans Mark Tranel,2007 St Louis has a rich history of planning that heretofore has not been documented The plans that have been made over the years by public nonprofit and civic agencies have given the St Louis metropolitan area its shape and direction Plans are the basis of the physical and built environment as well as of the activities and agendas that are carried out within this environment This volume the third in the St Louis Metromorphosis Book Series will review the history of various aspects of planning and provide insight into planning successes and challenges The volume will also look ahead with lessons for the future St Louis Plans will present a novel exploration of the St Louis region one that considers the blueprints for the urban area as it exists today The book will take the angle of Harlan Bartholomew who said that the objective of a city plan is the improvement of living conditions the stimulation of prosperity and the creation of intangible values in added health comfort convenience and community well being Therefore the book will illustrate the ways that future plans can provide a path to those intangible values Planning typically refers to that which occurs at the governmental level This book will explore the various angles from which St Louis plans have arisen from the regional municipal and neighborhood levels and in specific sectors including education health care and workforce development As the face of government shifts toward regional cooperation the outline of our past will be particularly relevant Timely issues that the twelve authors of the book s essays will explore include emergency preparedness planning and leadership at the neighborhood level transportation and

health care **EBOOK: Achieving Your Award in Education and Training** Liz Keeley-Browne,2014-09-16 This accessible book offers a step by step guide to teaching in the FE and Skills sector to support you in achieving your Education and Training award It provides all the content you need for the Certificate qualification so it covers all five mandatory core units of study plus one further optional unit on action research which will enable you to achieve the full Certificate qualification since the mandatory core units are not sufficient on their own Ideal for use as a self study text it helps you develop your practical teaching skills and work towards becoming a competent teacher whether you are new to teaching or want to develop your teaching In addition it offers tasks and reflective activities to support you in developing a portfolio for assessment towards the Certificate qualification So if you want to consolidate your study at a pace to fit with your busy schedule this book is for you Key features include A structure which follows the essential module content for the Certificate qualification One optional module in addition to the core practical teaching skill modules which is required to achieve full certification A grid at the end of each chapter for you to check your learning against the learning outcomes identified for the Certificate course Tasks and activities designed to develop your skills gradually as you work through the text Support in developing your reflective practice skills With its comprehensive approach and coverage this is an ideal handbook for students looking to achieve the Level 4 Certificate in Education and Training Transforming American Education ,1992

Brainwaves Teaching Guide Leone Strumbaun,Katrin Cornell,2005 Teacher guide to a set of nonfiction books with attitude to grab even the reluctant readers attention Provides direct instruction in vital comprehension strategies opportunities to engage with authentic texts in a variety of text types and integration of other learning areas with reading and writing opportunities for ages 6 **Project Africa** Barry K. Beyer,1970 **Russian Mathematics Education:**

Programs And Practices Bruce R Vogeli,Alexander Karp,2011-03-31 This anthology consisting of two volumes is intended to equip background researchers practitioners and students of international mathematics education with intimate knowledge of mathematics education in Russia Volume I entitled Russian Mathematics Education History and World Significance consists of several chapters written by distinguished authorities from Russia the United States and other nations It examines the history of mathematics education in Russia and its relevance to mathematics education throughout the world The second volume entitled Russian Mathematics Education Programs and Practices will examine specific Russian programs in mathematics their impact and methodological innovations Although Russian mathematics education is highly respected for its achievements and was once very influential internationally it has never been explored in depth This publication does just that **Russian Mathematics Education** Alexander Karp,Bruce Ramon Vogeli,2011 This anthology consisting of two volumes is intended to equip background researchers practitioners and students of international mathematics education with intimate knowledge of mathematics education in Russia Volume I entitled Russian Mathematics Education History and World Significance consists of several chapters written by distinguished authorities from Russia the United States and other nations

It examines the history of mathematics education in Russia and its relevance to mathematics education throughout the world. The second volume entitled Russian Mathematics Education Programs and Practices will examine specific Russian programs in mathematics, their impact, and methodological innovations. Although Russian mathematics education is highly respected for its achievements and was once very influential internationally, it has never been explored in depth. This publication does just that.

Engineering in K-12 Education National Research Council, National Academy of Engineering, Committee on K-12 Engineering Education, 2009-10-08

Engineering education in K-12 classrooms is a small but growing phenomenon that may have implications for engineering and also for the other STEM subjects: science, technology, and mathematics. Specifically, engineering education may improve student learning and achievement in science and mathematics, increase awareness of engineering and the work of engineers, boost youth interest in pursuing engineering as a career, and increase the technological literacy of all students. The teaching of STEM subjects in U.S. schools must be improved in order to retain U.S. competitiveness in the global economy and to develop a workforce with the knowledge and skills to address technical and technological issues.

Engineering in K-12 Education reviews the scope and impact of engineering education today and makes several recommendations to address curriculum, policy, and funding issues. The book also analyzes a number of K-12 engineering curricula in depth and discusses what is known from the cognitive sciences about how children learn engineering-related concepts and skills.

Engineering in K-12 Education will serve as a reference for science, technology, engineering, and math educators, policy makers, employers, and others concerned about the development of the country's technical workforce. The book will also prove useful to educational researchers, cognitive scientists, advocates for greater public understanding of engineering, and those working to boost technological and scientific literacy.

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