

math curriculum grade 2 pdf

math curriculum grade 2 pdf is a highly searched resource for parents, teachers, and educators seeking comprehensive and accessible materials for second-grade math instruction. In today's digital learning environment, the demand for effective, standards-based math curriculum in easily downloadable PDF formats is rapidly increasing. This article explores the essential elements of a grade 2 math curriculum, highlights the benefits of using PDF resources, and guides readers on how to evaluate and select the best math curriculum grade 2 pdf for their needs. We will break down the key math skills taught in second grade, discuss printable activities, and provide tips for successful implementation in classrooms or at home. Whether you are a teacher planning your lessons, a homeschooling parent, or an educational coordinator, this guide will help you understand, find, and use the most effective math curriculum grade 2 pdf resources available.

- Understanding the Math Curriculum for Grade 2
- Key Components of an Effective Math Curriculum Grade 2 PDF
- Core Mathematical Concepts Covered in Grade 2
- Benefits of Using PDF Resources for Grade 2 Math
- Printable Math Activities and Worksheets
- Tips for Selecting the Best Math Curriculum Grade 2 PDF
- Implementing Grade 2 Math Curriculum in the Classroom or Home
- Frequently Asked Questions About Math Curriculum Grade 2 PDF

Understanding the Math Curriculum for Grade 2

A math curriculum for grade 2 is designed to build upon foundational skills acquired in first grade and introduce more complex concepts aligned with national and state standards. The curriculum typically follows a structured progression, ensuring that students master essential math skills such as addition, subtraction, basic geometry, measurement, and early multiplication. With an increasing emphasis on problem-solving and critical thinking, a well-organized curriculum prepares students for higher-level mathematics in subsequent grades.

Most math curriculum grade 2 pdf resources are developed to be consistent

with educational standards such as the Common Core State Standards (CCSS) or other regional guidelines. They offer teachers and parents clear guidance on what students should know and be able to do by the end of second grade. These PDF materials often include lesson plans, assessments, printable worksheets, and interactive activities.

Key Components of an Effective Math Curriculum Grade 2 PDF

An effective math curriculum grade 2 pdf incorporates several essential elements to ensure student success and engagement. When evaluating PDF curriculum resources, it is important to consider the following components:

- Clear learning objectives and standards alignment
- Comprehensive lesson plans covering all required topics
- Varied instructional strategies to address different learning styles
- Assessment tools for tracking progress and mastery
- Interactive activities, practice exercises, and real-world applications
- Answer keys and teacher guides for easy implementation
- Visually engaging content with age-appropriate illustrations

A well-structured math curriculum grade 2 pdf will balance direct instruction with hands-on activities, allowing students to explore mathematical concepts in practical contexts.

Core Mathematical Concepts Covered in Grade 2

Number Sense and Operations

Second-grade math curriculum places strong emphasis on number sense, helping students understand the meaning of numbers and their relationships. Students learn to work with two- and three-digit numbers, perform addition and subtraction with regrouping, and begin to understand place value concepts. Mastery of these skills enables students to solve increasingly complex problems.

Measurement and Data

At this grade level, students are introduced to measurement concepts involving length, weight, and volume using standard units. They learn how to collect, organize, and interpret data using charts and graphs, laying the foundation for statistical reasoning.

Geometry and Spatial Reasoning

Grade 2 math curriculum includes exploration of basic geometric shapes, properties, and spatial reasoning. Students classify shapes, recognize symmetry, and understand concepts like area and perimeter in simple contexts.

Introduction to Multiplication and Division

Although multiplication and division are formally taught in later grades, many math curriculum grade 2 pdf resources offer early exposure to these concepts through repeated addition and equal grouping activities. This scaffolding helps students build readiness for more advanced operations.

Benefits of Using PDF Resources for Grade 2 Math

PDF resources offer significant advantages for delivering grade 2 math curriculum. They are easily accessible, printable, and compatible with various devices, making them ideal for both classroom and remote learning environments.

1. **Convenience:** PDFs can be downloaded and printed as needed, allowing for flexible lesson planning.
2. **Portability:** Teachers and students can access materials on tablets, computers, or printed copies.
3. **Cost-effectiveness:** Many high-quality math curriculum grade 2 pdf resources are available for free or at low cost.
4. **Customizability:** PDFs can often be edited or supplemented to suit specific classroom needs.
5. **Environmentally friendly:** Digital files reduce paper waste when used on electronic devices.

Additionally, PDF resources often include interactive features, such as fillable fields or embedded activities, enhancing student engagement and comprehension.

Printable Math Activities and Worksheets

Printable activities and worksheets are a cornerstone of any math curriculum grade 2 pdf. These materials provide students with opportunities to practice new skills, engage in problem-solving, and reinforce learning through repetition and application.

- Practice sheets for addition and subtraction with regrouping
- Place value charts and exercises
- Measurement activities using everyday objects
- Shape identification and classification tasks
- Graphing and data interpretation worksheets
- Math games and puzzles for skill reinforcement

Quality printable worksheets are visually engaging and designed to appeal to young learners, helping them develop confidence and fluency in mathematics.

Tips for Selecting the Best Math Curriculum Grade 2 PDF

Choosing the right math curriculum grade 2 pdf involves careful consideration of educational standards, content quality, and instructional approach. Here are some tips to guide your selection:

- Ensure alignment with recognized standards such as CCSS or state-specific guidelines.
- Review sample lessons and worksheets to assess clarity and age-appropriateness.
- Look for resources that include answer keys and teacher support materials.

- Evaluate the balance between direct instruction, hands-on activities, and assessment tools.
- Consider the needs of diverse learners, including students who require additional support or enrichment.
- Read reviews or recommendations from other educators and parents.

Taking these steps will help you choose a math curriculum grade 2 pdf that promotes effective learning and positive math experiences for students.

Implementing Grade 2 Math Curriculum in the Classroom or Home

Successful implementation of a math curriculum grade 2 pdf requires thoughtful planning and ongoing support. Teachers and parents should establish routines for daily math practice, monitor student progress, and provide targeted feedback.

In the classroom, math lessons can be enhanced with group activities, manipulatives, and technology integration. At home, parents can support learning by creating a dedicated workspace, setting goals, and encouraging math conversations during everyday activities. Regular assessment and reflection help identify areas for improvement and celebrate successes.

Flexibility is key; adjust pacing and instructional strategies based on student needs and learning styles to maximize outcomes.

Frequently Asked Questions About Math Curriculum Grade 2 PDF

Q: What topics are typically included in a math curriculum grade 2 pdf?

A: Most math curriculum grade 2 pdf resources cover number sense, addition and subtraction with regrouping, place value, measurement, data analysis, geometry, and an introduction to multiplication and division.

Q: Are math curriculum grade 2 pdf resources aligned with Common Core standards?

A: Many grade 2 math curriculum PDFs are designed to align with Common Core State Standards, ensuring students meet nationally recognized learning objectives.

Q: How can I use a math curriculum grade 2 pdf at home for homeschooling?

A: Homeschooling parents can download, print, and follow lesson plans, worksheets, and assessments from a math curriculum grade 2 pdf to provide structured and comprehensive instruction.

Q: Are there free math curriculum grade 2 pdf resources available?

A: Yes, several reputable educational publishers and organizations offer free or low-cost math curriculum grade 2 pdf materials online for teachers and parents.

Q: What are the benefits of printable math worksheets from a grade 2 curriculum?

A: Printable worksheets offer targeted skills practice, reinforce learning, and provide hands-on activities that engage students and build math fluency.

Q: How can teachers assess student progress using a math curriculum grade 2 pdf?

A: Teachers can utilize included assessment tools such as quizzes, performance tasks, and checklists to monitor student understanding and mastery of key concepts.

Q: What should I look for in a high-quality math curriculum grade 2 pdf?

A: Look for resources with clear objectives, standards alignment, engaging visuals, varied activities, answer keys, and support for diverse learners.

Q: Can math curriculum grade 2 pdf resources be used

alongside digital learning platforms?

A: Yes, many PDF resources are compatible with digital platforms, allowing integration with interactive lessons, online assessments, and virtual classroom tools.

Q: Are answer keys and teacher guides typically included in math curriculum grade 2 pdf downloads?

A: Most comprehensive math curriculum grade 2 pdf resources include answer keys, teacher guides, and tips for effective instruction.

Q: How often should students practice math using grade 2 curriculum worksheets?

A: Daily practice is recommended, but frequency can be adjusted based on student needs and instructional goals to ensure consistent progress.

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development, research, and practices in different education systems. It will help readers to reflect on curriculum policies and practices in their own education systems, and also inspire them to identify and further explore new areas of curriculum research for improving mathematics teaching and learning.

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math curriculum grade 2 pdf: BeeOne Grade 5 Math Workbook 2020 Edition Mrs Lakshmi Chintaluri, 2020-02-09 BeeOne Grade 5 Math Workbook 2020 Edition 363 pages of Worksheets for Grade 5 featuring Global standard worksheets of PYP(IB), US Common Core Standards, UK National Curriculum, Singapore Curriculum, Australian Curriculum, New Zealand Curriculum and suitable for any International curriculum. The topics covered are Number & Place Value, Fractions, Decimals & Percentage, Ratio & Proportion, Mental Math, Written Calculation, Shapes & Geometry, Position & Movement, Length, Mass & Capacity, Time, Area & Perimeter & Handling Data. This E-workbook features well designed worksheets with examples given in most of them and ideal for use throughout the year to support classroom work, to help with internal assessments, holiday practice and to revise for the end-of- year examinations at school. Important Features of this Book 363 high quality worksheets which will make your child perfect in his/her understanding of all Mathematical concepts for a Grade 5 student globally. Aesthetic design helps children fall in love with Math Aligned with Latest Curriculum of 2020 The worksheets are aligned with the latest curriculum of Enhanced PYP, Common Core, K2, Singapore Math, Australian Curriculum, CBSE & all well-known International Curriculum Conceptual Learning Assured Every single worksheet and workbook of BeeOne Books is focused on conceptual learning to assist children understand and perfect their learnings. Once the concepts are clear, Good Grades are assured Lowest Price We understand the importance of price for parents, we keep our costs low to ensure we provide you Global standards workbook at the Lowest Price Design This workbook features well designed worksheets with examples given in most of them and ideal for use throughout the year to support classroom work, to help with internal assessments, holiday practice and to revise for the end-of- year examinations at school. About BeeOne Books Publishers of 100's of high-quality, well designed & result oriented Workbooks suitable for Grade 1 to 6 Are the creators of www.grade1to6.com, the World's leading worksheet website of high-quality Math & English

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math curriculum grade 2 pdf: BeeOne Grade 6 Math Workbook 2020 Edition Mrs Lakshmi Chintaluri, 2018-01-01 Strengthen your Sixth grader's math learning and skills with Grade1to6.com workbooks. Worksheets in this workbook will enhance and strengthen the skills in Number systems Operation with numbers Addition Subtraction Multiplication Division Order of Operations Index & Exponent Fractions Decimals Percentages Polygons Area Volume Capacity Probability Statistics Transformation Sets Line Graphs Important Features of this Book These 551 high quality worksheets which will make your child perfect in Math. Suitable for a Grade 6 student globally. Aesthetic design helps children fall in love with Math. Aligned with Latest Curriculum of 2020 The worksheets are aligned with the latest curriculum of Enhanced PYP, Common Core, K2, Singapore Math, Australian Curriculum, CBSE & all well-known International Curriculum Conceptual Learning Assured Every single worksheet and workbook of BeeOne Books is focused on conceptual learning to assist children understand and perfect their learning. Once the concepts are clear, Good Grades are assured Lowest Price We understand the importance of price for teachers & parents, we keep our costs low to ensure we provide you Global standards workbook at the Lowest Price Design This workbook features well designed worksheets with examples given in most of them and ideal for use throughout the year to support classroom work, to help with internal assessments, holiday practice and to revise for the end-of- year examinations at school. Ideal for teachers who are teaching Grade 2 students, parents whose children are in Grade 2 and home schoolers. About BeeOne Books & www.grade1to6.com Publishers of 100's of high-quality, well designed & result oriented Workbooks suitable for Grade 1 to 6 Are the creators of www.grade1to6.com, the World's leading worksheet website of high-quality Math & English Worksheets for Grade 1 to 6 created by reputed teachers worldwide. The Grade1to6.com workbook series focuses on global standards worksheets created by experienced teachers and designed aesthetically for easy understanding. Beeone Books is rated a high 4.8 out of 5 in Teachers pay Teachers and used by 1000's of teachers worldwide. See some of the testimonials by users who are mostly well acclaimed teachers. Imogen D Great to reinforce knowledge taught. December 7, 2019 Gail. S Wow. Comprehensive and easy to choose necessary additional resources when I need it to supplement my Math Program. November 26, 2019 Michelle L. Great for modified programs in elementary. November 7, 2019 Toni B. Good material for practice October 28, 2019 Randeep D. Everything was so organized! very happy to have found this. July 3, 2019 Lisa B. This is easy to grab and print when you need just some straight up practice. This is a fantastic package. The Canadian curriculum is a little different, so I'm able to use parts of this for all the different levels of students in my class - from grade 2 to grade 6. June 27, 2019 Rachel S. Great product for longer worksheets. A few can be finished in a minute; you have to be selective for longer work sessions. June 10, 2019 Sharon W. Excellent! loved it. June 10, 2019 Lilli H. Great resource for

my differentiated students. April 29, 2019 Emily R. This is great! March 30, 2019 Janice M. Good angle work. My class loved it. March 20, 2019 Melissa M S. A great review resource. March 12, 2019 Lesley A. Great resource. February 15, 2019 Erika B. Great resource, thank you. November 13, 2018 Charise G. Great math supplement! June 18, 2018 Daniela S. Great! June 10, 2018 TeachPlanBeHappy Awesome resource! thanks! May 7, 2018

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math curriculum grade 2 pdf: Second Math Workbook | Grade 2 PYP (IB), Common core, KS1 Mrs Lakshmi Chintaluri, 2025-01-25 Second Math Workbook | Grade 2 PYP (IB), Common core, KS1 The topics covered are Place Value of Tens & Ones, Estimating & Counting, Number Patterns & Property, Number Pairs, Addition & Subtraction, Multiplication & Division, Parts of a Whole, Measurements, Shapes, Geometry, Time & Handling Data. Rated 4.7/5 by Teachers in TpT (Teachers pay Teachers), www.grade1to6.com and BeeOne Workbooks are the first choice for schools, teachers & parents globally. Schools: If you wish to have customized workbook with your school name, logo and address on the front cover we will be happy to create it for you. We have a special package wherein we will create customized workbooks of Math and English for Grade 1 to Grade 6 and will send a digital copy (PDF) to you. You can use the digital copy or even get it printed at a place of your choice. The complete package costs only \$150 and will take 7 days to be sent to you. For more details write to us at info@grade1to6.com today. Edition: 2024-25 Curriculum: PYP(IB), US Common Core Standards, UK National Curriculum, Singapore Curriculum, Australian Curriculum, New Zealand Curriculum and suitable for any International curricula. File Type: PDF Download

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math curriculum grade 2 pdf: Teaching Multiplication with Lesson Study Masami Isoda, Raimundo Olfos, 2020-11-23 This open access book is intended to assist teachers, teacher trainers, curriculum designers, editors and authors of textbooks in developing strategies to teach the multiplication of natural numbers based on the experience of the Lesson Study in Japan. This approach to mathematics education dates back to the 1870s and reconciles the emphasis on problem solving with the treatment of the curricular contents. It has gained international recognition since the 1990s and thanks to it mathematics education in Japan has been recognized as one of the most efficient and innovative in the world. This growing international awareness has led to an effort to apply the principles of Lesson Study to other parts of the world and this book shows how experienced authors from Brazil, Chile, Mexico, Spain and Portugal have worked to adapt some of these methods and techniques to the Portuguese and Spanish speaking countries of Ibero-America. Drawing on the impact of Lesson Study on government curriculum decisions and teacher behavior in

Japanese classrooms; offering examples of lessons, lesson plans and suggestions for teaching; and presenting examples of the good reception of the principles of Lesson Study in Ibero-America, Teaching Multiplication with Lesson Study – Japanese and Ibero-American Theories for Mathematics Education shows how an efficient and cutting-edge experience in mathematics education can travel the world and help teachers in many different countries.

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math curriculum grade 2 pdf: 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 step.

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The book covers the various measures used in a range of assessment dimensions, and includes valuable information regarding young children with special needs and English Language Learners, which has rarely been touched upon in other textbooks. The chapters are focused on student accessibility and include practical applications of key concepts. Features and benefits: Covers a range of assessment concepts, including - Formative (uses feedback from learning to adapt teaching) -Summative (i.e. tests, quizzes) -Authentic (focuses on complex/deeper tasks) -Standardized (STAR, SAT) Includes coverage of assessment for English language learners and children with special needs -- topics that are not provided enough coverage in other books (including Wortham, McAfee, Puckett and Mindes). Wright's writing style grabs and engages the reader in the topic. Two of our reviewers who use Wortham specifically cited Wright's writing style as a reason they would adopt our book. A McAfee reviewer is likely to switch for the same reason.

math curriculum grade 2 pdf: Evidence, Politics, and Education Policy Lorraine M. McDonnell, M. Stephen Weatherford, 2021-02-01 In Evidence, Politics, and Education Policy, political scientists Lorraine M. McDonnell and M. Stephen Weatherford provide an original analysis of evidence use in education policymaking to help scholars and advocates shape policy more effectively. The book shows how multiple types of evidence are combined as elected officials and their staffs work with researchers, advocates, policy entrepreneurs, and intermediary organizations to develop, create, and implement education policies. Evidence, Politics, and Education Policy offers an in-depth understanding of the political environment in which evidence is solicited and used. Two key case studies inform the book's findings. The primary case—a major, multimethod study—examines the development and early implementation of the Common Core State Standards at the national level and in four states: California, Indiana, Massachusetts, and Tennessee. A comparative case analyzes the evidence used in Congressional hearings over the twenty-year history of the Children's Health Insurance Program. Together, the two cases illustrate the conditions under which different types of evidence are used and, in particular, how federalism, the complexity of the policy problem, and the policy's maturity shape evidence use. McDonnell and Weatherford focus on three leverage points for strengthening the use of research evidence in education policy: integrating research findings with value-based policy ideas; designing policies with incentives for research use built into their rules and organizational structures; and training policy analysts to promote the use of research in policymaking venues.

math curriculum grade 2 pdf: Future of STEM education: Multiple perspectives from researchers Subramaniam Ramanathan, Ida Ah Chee Mok, 2023-03-28

math curriculum grade 2 pdf: *Second International Handbook of Mathematics Education* Alan Bishop, M.A. (Ken) Clements, Christine Keitel-Kreidt, Jeremy Kilpatrick, Frederick Koon-Shing Leung, 2012-02-02 ALAN 1. BISHOP The first International Handbook on Mathematics Education was published by Kluwer Academic Publishers in 1996. However, most of the writing for that handbook was done in 1995 and generally reflected the main research and development foci prior to 1994. There were four sections, 36 chapters, and some 150 people contributed to the final volume either as author, reviewer, editor, or critical friend. The task was a monumental one, attempting to cover the major research and practice developments in the international field of mathematics education as it appeared to the contributors in 1995. Inevitably there were certain omissions, some developments were only starting to emerge, and some literatures were only sketchy and speculative. However that Handbook has had to be reprinted three times, so it clearly fulfilled a need and I personally hope that it lived up to what I wrote in its Introduction: The Handbook thus attempts not merely to present a description of the international 'state-of-the-field', but also to offer synthetic and reflective overviews on the different directions being taken by the field, on the gaps existing in our present knowledge, on the current problems being faced, and on the future possibilities for development. (Bishop et al. , 1996) Since that time there has been even more activity in our field, and now seems a good time to take stock again, to reflect on what has happened since 1995, and to create a second Handbook with the same overall goals.

math curriculum grade 2 pdf: The Early Years Foundation Stage Ioanna Palaiologou,

2024-08-09 The revised fifth edition of The Early Years Foundation Stage has been fully updated to cover revised EYFS, revised Development Matters and policy shifts in the sector. New to the book: · Brand new chapters on the Rights of the Child, Children's Development & Learning Theories and Planning. · New content on diversity and inclusion throughout all chapters. · New and updated case studies throughout the book, including international cases. · Additions to chapters on children's mental health, climate crisis and working with children post-pandemic. This market-leading textbook is an essential guide for students, helping them to develop an understanding of the EYFS curriculum, and encouraging a critical view of the theory and policy behind it to strengthen their practice.

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math curriculum grade 2 pdf: Contemporary Research and Perspectives on Early Childhood Mathematics Education Iliada Elia, Joanne Mulligan, Ann Anderson, Anna Baccaglini-Frank, Christiane Benz, 2018-02-21 This book brings together a collection of research-based papers on current issues in early childhood mathematics education that were presented in the Topic Study Group 1 (TSG 1) at the 13th International Congress on Mathematical Education (ICME-13), held at the University of Hamburg in 2016. It will help readers understand a range of key issues that early childhood mathematics educators encounter today. Research on early childhood mathematics education has grown in recent years, due in part to the well-documented, positive relation between children's early mathematical knowledge and their later mathematics learning, and to the considerable emphasis many countries are now placing on preschool education. The book addresses a number of central questions, including: What is mathematical structural development and how can we promote it in early childhood? How can multimodality and embodiment contribute to early mathematics learning and to acquiring a better understanding of young children's mathematical development? How can children's informal mathematics-related experiences affect instruction and children's learning in different mathematics content areas? What is the role of tools, including technology and picture books, in supporting early mathematics learning? What are the challenges in early childhood mathematics education for teachers' education and professional development?

math curriculum grade 2 pdf: 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.

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