

# Metric System Lesson Plans

## METRIC SYSTEM TEACHERS

**Objectives:**  
Students will understand and use the metric system.

**Standards:**  
1. Know the units of length, mass, and volume.  
2. Understand the relationship between units.  
3. Convert between units of length, mass, and volume.

**Activities:**  
1. Measure the length of a book, a pencil, and a string.  
2. Measure the mass of a paperclip, a coin, and a small object.  
3. Measure the volume of a glass of water, a cup of milk, and a bottle of juice.

## Parents, Parents & Parents

**Objectives:**  
Parents will understand and use the metric system.

**Standards:**  
1. Know the units of length, mass, and volume.  
2. Understand the relationship between units.  
3. Convert between units of length, mass, and volume.

**Activities:**  
1. Measure the length of a book, a pencil, and a string.  
2. Measure the mass of a paperclip, a coin, and a small object.  
3. Measure the volume of a glass of water, a cup of milk, and a bottle of juice.

## METRIC SYSTEM PROBLEM SOLVERS

**Objectives:**  
Students will understand and use the metric system.

**Standards:**  
1. Know the units of length, mass, and volume.  
2. Understand the relationship between units.  
3. Convert between units of length, mass, and volume.

**Activities:**  
1. Measure the length of a book, a pencil, and a string.  
2. Measure the mass of a paperclip, a coin, and a small object.  
3. Measure the volume of a glass of water, a cup of milk, and a bottle of juice.

## King Henry Did Split Seven Children Mostly



## Conversion Practice Paper

Choose one of the following projects to complete to demonstrate your understanding of converting units.

- Volume Conversions: Make a poster by converting the volume of a glass of water, a cup of milk, and a bottle of juice.
- Mass Conversions: Make a poster by converting the mass of a paperclip, a coin, and a small object.
- Distance Conversions: Create a poster by converting the distance of a walk, a run, and a drive.

## Volume

Remember: King Henry Did Split Seven Children Mostly

Conversion	Unit	Conversion
1 Kilometer	= 1,000 Meters	1,000 Meters = 1 Kilometer
1 Hectometer	= 100 Meters	100 Meters = 1 Hectometer
1 Decameter	= 10 Meters	10 Meters = 1 Decameter
1 Meter	= 100 Centimeters	100 Centimeters = 1 Meter
1 Decimeter	= 10 Centimeters	10 Centimeters = 1 Decimeter
1 Centimeter	= 10 Millimeters	10 Millimeters = 1 Centimeter

## Mass

Remember: King Henry Did Split Seven Children Mostly

Unit	Conversion
1 Kilogram	= 1,000 Grams
1 Hectogram	= 100 Grams
1 Decagram	= 10 Grams
1 Gram	= 1,000 Milligrams
1 Decigram	= 100 Milligrams
1 Centigram	= 10 Milligrams

## Distance

Remember: King Henry Did Split Seven Children Mostly

Unit	Conversion
1 Kilometer	= 1,000 Meters
1 Hectometer	= 100 Meters
1 Decameter	= 10 Meters
1 Meter	= 100 Centimeters
1 Decimeter	= 10 Centimeters
1 Centimeter	= 10 Millimeters

Black & White and Color copies!



# Middle School Metric System Lesson Plans

**Mary M. Hatfield**



## **Middle School Metric System Lesson Plans:**

**Help! I'm Teaching Middle School Science** C. Jill Swango, Sally Boles Steward, 2003 Like your own personal survival guide Help IOCom Teaching Middle School Science is a nontechnical how to manualOCoespecially for first year teachers But even veteran teachers can benefit from the plentiful ideas examples and tips on teaching science the way middle schoolers learn best The book covers all the basics what to do on the first day of school including icebreaker activities preparing safe and effective lab lessons managing the classroom working with in school teams as well as parents But its practicalOCOand encouragingOCOapproach doesnOCOt mean it shortchanges the basics of effective pedagogy YouOColl learn how to handle cooperative learning and assessment how to help students write effectively and the importance of modeling for early adolescents

**Resources in education** ,1983-02      **Teaching Mathematics in Elementary and Middle School** Joseph G. R. Martinez, Nancy Conrad Martinez, 2007 With an emphasis on inquiry and process Teaching Mathematics in Elementary and Middle School embraces active mathematics instruction and the development of mathematical thinking through problem solving The text challenges future teachers to prepare their K 8 students for a world that requires a higher level of mathematical literacy and enables them to compete in a global society Teachers will develop their own mathematical abilities allowing them to help students discover a rich combination of thinking processes and problem solving strategies raising the learning expectations for all Unique text features TIE Thought Investigation and Exploration features ask pre service teachers to develop their own thinking and learning abilities preparing them to better challenge their students Mathematics in the Real World Idea Files and Teacher Profiles model best practices and supply readers with concrete teaching tools and strategies Mathematical Thinking Mathematical Games and Mathematics and Technology features detail activities to engage and develop students mathematical thinking Accompanying student artifacts illustrate the progression of students conceptual understanding CD logo replaces bullet Math Activities CD ROM provides an outstanding text component containing more than 100 activities that use a three step process explore invent discover to foster the development of mathematical thinking through guided inquiry Aligned with the NCTM standards each activity is integrated within the text and designed to help develop students conceptual understanding of mathematics Mathematics in Literature offers thoroughly developed ideas for using children s literature to create meaningful contexts for mathematics learning An extensive bibliography that can be used for this purpose appears on the CD Rom I think the text is an excellent resource for elementary and middle school methods courses In particular I like how the textbook handles the bigger issues such as geometric reasoning rather than just geometry I also like the excellent foundation in educational research that the textbook provides as well as some very careful attention and consistent referencing to the NCTM standards and principles The incorporation of classroom vignettes teacher illustrations and samples of student work also all add to the excellent grounding of the text in real world classroom work Dr Neal Grandgenett University of Nebraska at Omaha      Mathematics Methods for Elementary and Middle School Teachers

Mary M. Hatfield,2004-04-29 An activity based approach to teaching with an emphasis on using manipulatives to build conceptual understanding This invaluable book combines practical teaching ideas video examples updated assessment techniques and the NCTM Assessment Standards to give teachers all the background they need to introduce elementary and middle school students to the wonders of mathematics *Mathematics Teaching in the Middle School* ,2008-02

**Theoretical Mechanics for Junior Students: a Text Book for the Elementary Stage of the Science and Art Department's Syllabus. Containing the Examination Questions from 1861 to 1872** William James Browne,1872  
Publishers' circular and booksellers' record ,1871 **Engineering** ,1897 *Crane Valve World* ,1920 **The Valve World** ,1920 The Valve World Justin Wallace McEachren,1920 Annual Report Maryland. State Board of Education,1903 Medical Journal of Australia ,1916 Report of the State Board of Education Shewing the Condition of the Public Schools of Maryland for the Year Ending September 30 ... Maryland. State Board of Education,1903 A Catalogue of the Officers and Students of Washington University, for the Academic Year ... Washington University (Saint Louis, Mo.),1909 **Theoretical mechanics for junior students** William James Browne,1872 **tyhe educational times** ,1878 **Report** Maryland. State Board of Education,1903 Annual Report of the State Board of Education Maryland. State Board of Education,1903 **Report** Maryland. Board of Education,1903

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## **Table of Contents Middle School Metric System Lesson Plans**

1. Understanding the eBook Middle School Metric System Lesson Plans
  - The Rise of Digital Reading Middle School Metric System Lesson Plans
  - Advantages of eBooks Over Traditional Books
2. Identifying Middle School Metric System Lesson Plans
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Middle School Metric System Lesson Plans
  - User-Friendly Interface
4. Exploring eBook Recommendations from Middle School Metric System Lesson Plans

- Personalized Recommendations
- Middle School Metric System Lesson Plans User Reviews and Ratings
- Middle School Metric System Lesson Plans and Bestseller Lists
- 5. Accessing Middle School Metric System Lesson Plans Free and Paid eBooks
  - Middle School Metric System Lesson Plans Public Domain eBooks
  - Middle School Metric System Lesson Plans eBook Subscription Services
  - Middle School Metric System Lesson Plans Budget-Friendly Options
- 6. Navigating Middle School Metric System Lesson Plans eBook Formats
  - ePub, PDF, MOBI, and More
  - Middle School Metric System Lesson Plans Compatibility with Devices
  - Middle School Metric System Lesson Plans Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Middle School Metric System Lesson Plans
  - Highlighting and Note-Taking Middle School Metric System Lesson Plans
  - Interactive Elements Middle School Metric System Lesson Plans
- 8. Staying Engaged with Middle School Metric System Lesson Plans
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Middle School Metric System Lesson Plans
- 9. Balancing eBooks and Physical Books Middle School Metric System Lesson Plans
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Middle School Metric System Lesson Plans
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Middle School Metric System Lesson Plans
  - Setting Reading Goals Middle School Metric System Lesson Plans
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Middle School Metric System Lesson Plans

- Fact-Checking eBook Content of Middle School Metric System Lesson Plans
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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