

Sample High School Lesson Plan
MATHEMATICS DEPARTMENT

Teacher: Pamela Sola

Periods: 1, 2, 3, 4, 5

Week 3: Aug. 24th – Aug. 28th, 2009

Course: Integrated Advanced Algebra

Developed in Collaboration With: Crystal Hilton

Monday	Tuesday	Wednesday	Thursday	Friday														
Standard: MA.1.A.1. Students will explore and interpret the characteristics of functions, using graphs, tables, and simple algebraic techniques. h. Graph the basic function $f(x) = x^2$. Graph vertical shifts, stretches, and shrinks, as well as reflections.	Standard: MA.1.A.1. Students will explore and interpret the characteristics of functions, using graphs, tables, and simple algebraic techniques. h. Graph the basic function $f(x) = x^2$. Graph vertical shifts, stretches, and shrinks, as well as reflections.	Standard: MA.1.A.1. Students will explore and interpret the characteristics of functions, using graphs, tables, and simple algebraic techniques. h. Graph the basic function $f(x) = x $. Graph vertical shifts, stretches, and shrinks, as well as reflections.	Standard: MA.1.A.1. Students will explore and interpret the characteristics of functions, using graphs, tables, and simple algebraic techniques. h. Graph the basic function $f(x) = x $. Graph vertical shifts, stretches, and shrinks, as well as reflections.	Standard: MA.1.A.1. Students will explore and interpret the characteristics of functions, using graphs, tables, and simple algebraic techniques. h. Graph the basic function $f(x) = x$; $f(x) = x^2$; $f(x) = x^3$; $f(x) = x ^2$. Graph vertical shifts, stretches, and shrinks, as well as reflections.														
Essential Question: How do I analyze and graph cubic functions and how will it be affected by various transformations?	Essential Question: How do I analyze and graph cubic functions and how will it be affected by various transformations?	Essential Question: How will I analyze and graph an absolute value function and how will it be affected by various transformations?	Essential Question: How will I analyze and graph an absolute value function and how will it be affected by various transformations?	Essential Question: How will I analyze and graph a linear, quadratic, cubic & absolute value function and how will it be affected by various transformations?														
Vocabulary: Cubic function, vertical shift, reflection, stretch, shrink.	Vocabulary: Cubic function, even function, odd function, symmetry, and behavior.	Vocabulary: Absolute value, symmetry.	Vocabulary: Absolute value.	Vocabulary: Linear, quadratic, cubic, absolute value.														
Sponge (5 min.): Complete the following table: <table><tr><td>x</td><td>-2</td><td>-1</td><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>x^3</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	x	-2	-1	0	1	2	3	x^3							Sponge (5 min.): Make an Anticipation Guide with 5 true/false statements using the words cubic function, odd function, even function, symmetry, and end behavior.	Sponge (5 min.): Complete Absolute Value Graphic Organizer #1.	Sponge (10 min.): Complete a Frayer model for an absolute value function.	Sponge (5 min.): Journal Prompt: How are linear, quadratic, cubic, and absolute value functions similar and different?
x	-2	-1	0	1	2	3												
x^3																		
Opening (15min): Graph parent function $f(x) = x^2$. Use graphing utility to compare parent graphs to $y = x^2 + 2$; $y = x^2 - 2$; $y = -2x^2 + 2$; $y = -2x^2 - 3$. Have students make conjectures first and then test them on graphing calculator.	Work Period (10 min.): Divide class into 3 groups and have them create a Frayer model for one of the vocabulary words. Content Presentation (15min): Have each group share their Frayer model with the class. Work p. 127 Ex. 3 and Guided practice #2 and EOCT study guide p. 17 as a class.	Opening (15min): Give a visual picture of graphs and have students discuss the change from the parent graph for the following $y= x +2$; $y= x -2$; $y=2 x $; $y = - x $; $y = \frac{1}{2} x $. Discuss vocabulary from Absolute Value Graphic Organizer #1 as a class.	Opening (10min): Translation of Absolute Value Graphs Video	Opening: None														
Work Period (20 min.): Have students create a foldable that illustrates the parent graph in block 1, and blocks 2 - 5 with the following transformations: vertical shift up, vertical shift down, stretch/wrapward shift, stretch with downward shift, reflection with a stretch. Equations must be included.	Work Period (10 min.): Student work: textbook p. 128 (1, 2, 10 - 13) using Boss/Secretary .	Work Period (20 min.): Students complete From Wonderland to Functionland Task #9-11 using Data Check .	Work Period (20 min.): Students complete Absolute Value Graphic Organizer #4 in pairs using Kelly Coach .	Work Period (40 min.): Administer Math 1 Quiz #2 (1.1-1.3, 1.7, 1.8, 2.10, 3.1)														

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A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the Iowa Department of Public Instruction text.

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Teaching and Learning High School Mathematics Charlene E. Beckmann, Denisse R. Thompson, Rheta N.

Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

Assessing Middle and High School Mathematics & Science Sheryn Spencer-Waterman, 2013-08-16 For middle and high school teachers of mathematics and science this book is filled with examples of instructional strategies that address students readiness levels interests and learning preferences It shows teachers how to formatively assess their students by addressing differentiated learning targets Included are detailed examples of differentiated formative assessment schedules plus tips on how to

collaborate with others to improve assessment processes Teachers will learn how to adjust instruction for the whole class for small groups and for individuals They will also uncover step by step procedures for creating their own lessons infused with opportunities to formatively assess students who participate in differentiated learning activities

Resources in Education ,1997 **Research in Education** ,1974 Junior High School Mathematics Unit ,1959 **A Method of Evaluating Secondary School Units** William Ross Bourne,1925 *The Practical Unit Lesson Plan Book for High School Teachers* John Guy Fowlkes,1931 **A Manual for the High Schools of Wisconsin** J.T. Giles,Wisconsin. Department of Public Instruction,1924 Biennial Report of the State Superintendent of Public Education to the General Assembly of the State of Louisiana Louisiana. Department of Education,1914 *The Science, Art, Philosophy and Literature of Education* Frank Herbert Palmer,1912 **Education** ,1912 **The Arizona Teacher** ,1925 **Performance Standards: High school** New Standards (Organization),1997 **The Journal of Education** Thomas Williams Bicknell,Albert Edward Winship,Anson Wood Belding,1913 Summary of Standards and Equipment for Approved Graded and High Schools Iowa. Department of Public Instruction,1921 *A Tentative Syllabus in Junior High School Mathematics* University of the State of New York,1927 The High School Teacher ,1925 **Junior High School Mathematics Units** School Mathematics Study Group,1959 The High School Quarterly ,1921 Directory of Distance Learning Opportunities Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

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Table of Contents Hs Mathematics Unit Lesson System

1. Understanding the eBook Hs Mathematics Unit Lesson System
 - The Rise of Digital Reading Hs Mathematics Unit Lesson System
 - Advantages of eBooks Over Traditional Books
2. Identifying Hs Mathematics Unit Lesson System
 - 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 Hs Mathematics Unit Lesson System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hs Mathematics Unit Lesson System
 - Personalized Recommendations
 - Hs Mathematics Unit Lesson System User Reviews and Ratings
 - Hs Mathematics Unit Lesson System and Bestseller Lists
5. Accessing Hs Mathematics Unit Lesson System Free and Paid eBooks

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