

Sample High School Lesson Plan
MATHEMATICS DEPARTMENT

Teacher: Pamela Sola

Periods: 1, 2, 3, 4, 8, 9

Week 3: Aug. 24th – Aug. 28th, 2009

Course: Integrated Advanced Algebra

Developed in Collaboration With: Crystal Hilton

Monday	Tuesday	Wednesday	Thursday	Friday														
Standard: MA1.A1. 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: MA1.A1. 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: MA1.A1. 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: MA1.A1. 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: MA1.A1. 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)														

Hs Mathematics Unit Lesson System

Lingsheng Yao



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