

W. R. Thomas Mathematics Summer Packet 2017

Incoming Algebra Students “Tigers on the Prowl for Success”

Dear Parents and Students,

The first day of school students will receive an extra credit grade for the completion of the Algebra 1 Readiness Resource Packet that was provided by the District to help prepare students for Algebra I next year. Students were given copies of the packet, and the packet can be found in the Student Portal under the Resource tab. In addition, the answers to the packet are available in the Parent Portal.

Students will be tested on **Multiplication Facts, Integer Rules, One-Step and Two-Step equations** the first week of school. For **extra** practice on Algebra concepts, students are encouraged to work on Math Nation - a highly effective, intensive, online learning free preparation resource, Students can watch Algebra videos as many times as they need, and do the problems in a study guide provided by the program.

To access Math Nation:

1. Login to your student portal
2. Click the tab, “Apps/Service/Site” to select “Math Nation”
3. Upper left hand corner, Click on the drop down menu to select “Algebra 1” to view videos

Month / Week	Note: Please READ the explanation first to get a deep understanding of the algebra concepts, take notes and then do the problems😊	# of items
June 12-16	Lesson 1 Integer Exponents	
	Check Yourself: Simplify	1 – 4
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	Check Yourself: Write your answer of the base with a positive exponent	1 – 4
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June 19-23	Lesson 2 Identifying Rational and Irrational Numbers	
	Check Yourself: Convert the following fractions to repeating decimals.	1 – 6
	Check Yourself: Convert the following decimals to fractions.	1 – 6
	Check Yourself: Rational or Irrational?	Chart
	Lesson 3 Rational and Irrational Numbers Continue	
	Check Yourself: Square Roots	1 – 4
	Check Yourself: Cube Roots	1 – 4
	Check Yourself: Approximating irrational numbers to the nearest whole number	1 – 4
	Check Yourself: Compare the following numbers using < or >	
	Check Yourself: Put a point on the line for each irrational numbers	1 - 4
	Check Yourself: Estimate the expressions to the nearest whole number	1 - 4
June 26-30	Lesson 4 Introduction to Functions	
	Check Yourself: Converting the following decimals to fractions	1 -2
July 3-7	Lesson 5 Proportional Relationships	
	Check Yourself: Find the Slope of the Line through the given points	1 - 4
	Check Yourself: Determine the Unit Rates	1 - 3
	Check Yourself: Graph the Proportional Relationship between the two quantities, write the equation representing the relationship and describe how the unit rate or slope is represented on the graph	1 - 2
	Check Yourself: Compare Proportional Relationships	1 - 2
July 10-14	Lesson 6 Linear Functions	
	Check Yourself: Show another way to show that the slope of a line is constant by using similar triangles	1 - 6
	Check Yourself: Which functions show a proportional relationship? How do you know?	1 - 4
	Check Yourself: Write an Equation in the Slope-Intercept Form for the graph	1

	shown	
	Lesson 7 Compare Properties of two functions	
	Check Yourself: Answer the following questions comparing function equations, graphs, tables, and descriptions	1 - 6
July 17-21	Lesson 8 Slope-Intercept Equation of a Line	
	Check Yourself: Select the Equation represented by the graph	1
	Lesson 9 Investigating Linear Functions	
	Practice: Identify the Rate of Change, initial value, independent variable, dependent variable. Then describe what the rate of change and initial value mean in the context of each situation. Finally, write the equation of the linear line	1 - 5
July 24-28	Lesson 10 Qualitative Functional Relationship	
	Practice: Which graph represents a linear function, increasing at a constant rate	1 - 5
	Practice: Match each description with its function graph showing speed in term of time	1 - 6
	Lesson 11 Linear Equations in One Variable	
	Check Yourself: Graph the following systems of equations and estimate the solution from the graph	1 - 4
July 31-4	Lesson 12 Analyze and solve pairs of simultaneous Linear Equations	
	Check Yourself: Solving Equations with Variables on Both Sides	1 - 4
	Check Yourself: Determine Whether the Equation has no solution, one solution or infinite many solutions by placing a check in the appropriate column	1 - 4
	Check Yourself: Solve the following System Using the Substitution Method	1 - 4
	Check Yourself: Solve the following System Using the Elimination Method	1 - 3
	Check Yourself: Decide if the following Systems of the Equations have Single No or Infinite Solutions. If it has a solution, solve the system.	1 - 4
August 7-11	Lesson 13 Scatter Plots	
	Practice: Use the given data to answer the questions & construct the scatter plot.	1 - 4
	Check Yourself: Use the given scatter plots to answer the questions	1 - 4
	Lesson 14 Line of Best Fit	
	Check Yourself: Draw a line of best fit on the given scatter plot	1 - 2
August 14-18	Lesson 15: Patterns of Association	
	Check Yourself: Use the given line of best fit or equation of the line of best fit to answer the following questions.	1 - 4
	Lesson 16: Two-Way Table	
	Check Yourself: Use the data set to answer the following questions. For this data set a class of middle school students was asking what they thought was most important in school, good grades or popularity.	1-4

If you have any questions, please contact:

W.R. Thomas Middle School
13001 S.W. 26th Street
Miami, Florida 33175
(305)995-3800

<http://wrthomas.dadeschools.net>

Student Name (Print)

Signature

Date

Parent/Guardian Name (Print)

Signature

Date