

MATH TIMETABLE 2011-2012

Math Models

1st 6 weeks
14 Teaching Days

Number of Days	Concept	Topics	TEKS
2	Recursive Thinking	Comparing growth rates Interested in Interest	1A,1B, 5A, 7A
1	Interpretation of various graphs	Let Your Feet do the Walking	2A
1	Graphs & Trends	Interpreting Graphs Using a trend line	2A, 2C, 3C
1	Linear Graphs	Practice Walking Linear Graphs Assessment	2D
2	Displaying Data	Pictograph, Box Plots, Stem & Leaf Histograms, Bar Graphs, Lickert Scale Assessment: Find your own data	2A, 2B, 2C, 2D
1	Comparing Variables	Correlation Scatter Plots	2A, 2B, 2D, 3A
2	Developing the Linear Model	Building Equations, Tables, & Graphs Rate of Change Cellular Phone Service	1A, 1B, 2A
2	Rate of Change	Activity: Rate of change Assessment: Rate of Change	2D
2	Determining a Linear Model	Finding an equation from a table or graph Guess my equation	1C, 2A, 2C
Every Day		Problem Solving	1A-C, 3 A-C,

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Math Models

2nd Six Weeks
15 Teaching Days

Number of Days	Concept	Topics	TEKS
1	Introduction to exponential and logistic graphing	Simulating Epidemics	2A,3A, 3C
1	Hook's Laws, Measurement	Activity: Hook's Law	3A,3B,8C
1	Linear Modeling in Science	Capture/Recapture	2B, 3A
1	Making Predictions	Predicting Populations	1B, 2D, 3A
1	Interpreting Real life Data	Endangered Species	2A, 2C, 3C
1	Exponential Growth	Population Growth Reflect & Apply	3C
1	Exponential Growth	M&M Growth	3A, 3C, 8A
1	Exponential Decay	Activity 1:Exponential Decay	3C
1	Newton's Law	Newton's Law Reflect & Apply	3C
1	Exponential Functions using Real World Examples	Activity: Height vs. Bounce	2A, 3A,
1	Developing the Quadratic Model	Ball Bounce Second Differences Reflect & Apply	1B, 2A
2	Real World Applications of Quadratics	Breaking Distance Gravity-Transformations Reflect & Apply	1B, 2A, 3A, 3C, 8B
1	Boyle's Law	Boyle's Law	3A, 3C, 8C
Every Day	Problem Solving		1A-C, 3 A-C,

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Math Models

3rd 6 weeks
14 Teaching Days

Number of Days	Concept	Topics	TEKS
1	Decision Making Minimizing Perimeter	Fixed Area	1A, 1B,3A 5A
1	Exponential Modeling with Money	Consumer Price Index Depreciation Reflect & Apply	2C, 3C, 8A
1	Comparing Linear & Exponential	Median Earnings for Men and Women	1A, 3C, 5A
1	Compound Interest Model Compound Interest & Amortization Model	Amortization –Car Loan Annuity Reflect & Apply	6C, 7C
2	Compound Interest with Loans & Annuities	Time Value of Money Solver Principles and Payments Reflect & Apply	6B, 6C, 7A
1	Real life Simulation of Finance	Internet Calculator	3A, 3B, 5C, 6B, 6C, 7C
2	Analyze spending habits	Student Income/Expense Log Spending Habits for Other Age Groups Constructing a Data Table for Income & Expenses Constructing Bar Graphs Assessment	2A
2	Income Tax	Determining Net Income Determining Gross Pay How to Find Net Pay Is Federal Withholding Tax a Linear Function? Assessment:Quiz	5A
1	Compare & Analyze Data involving Rent	Apartment Size vs. Rent Rent vs. Apartment Size	1A, 1B, 2A, 2B, 2D,3A, 3B, 3C, 5A
2	Midterm Review Midterm Final		
Every Day	Problem Solving		1A-C, 3 A-C,

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Math Models**4th 6 weeks
14 Teaching Days**

Number of Days	Concept	Topics	TEKS
2	Line of best fit	Automobile Comparison	1A, 1B, 2A, 2B, 2D,3A, 3C, 5A
1	Average Utility Expenses	Monthly Electricity Usage and Cost	2B
4	Personal Finance Portfolio	Portfolio Cover Sheet Renting an Apartment Data Sheet Buying a Cr Data Sheet The Final Budget Assessment	1B, 5A
2	Finance in the Real World	Credit Card Payoff-Pay it Off Reflect & Apply	6A
1	Investigating Financial Decisions	Cast or Finance? Comparing Deals	6A, 6C
1	Figures and Transformations	Reflections, rotations, translations	G.7A, G.7C, G10A
1	Linear and Non-Linear Functions	Functions, Independent variables, Linear equations	A1B, A5A, A5C, A10A
1	Inequalities	Inequalities, Slope-intercept form	A1B, A1D,A5C
1	Graph of Linear Equations	Rate of Change	A6A, A6C, A6E
Every Day	Problem Solving		1A-C, 3 A-C,

MATH TIMETABLE 2011-2012

Math Models**5th 6 weeks
15 Teaching Days**

Number of Days	Concept	Topics	TEKS
1	Writing Equations and Inequalities	Writing equations and solving inequalities	A3A, A4a, A4b, A7A, A7C
1	Expressions, Equations and Inequalities	Simplifying expressions, solving word problems using 4 corner model	A4B, A7B, 8.15A
1	Writing and Solving Systems of Linear Functions	Systems of equations using word problems	A.8A, A.8B, A.8C
1	Graphs, Transformations, and Solving Equations	Use tables, graphs and equations to solve quadratics	A1D, A9B, A9C, A9D, A10A, A10B
1	Geometric Figures	Use nets of prisms and pyramids to draw solids from different views	G6B, G6C
1	Right triangles and Distance	Special right triangles, Pythagorean Theorem, Angles of elevation and depression	G4A, G5D, G8C
1	Composite Figures	Finding area of both shaded and unshaded regions of composite figures	G4A, G8A
3	Area, Surface Area, and volume	Using formula chart solve for surface area and volume of prisms and pyramids	G4A, G8D
1	Similar Figures	Use proportions to solve for similarity	G11A, G11B
3	Central Tendency and predictions	Model both theoretical and empirical probability and determine which measure of central tendency is most appropriate	8.11B, 8.12A, M4A, M4B
1	Generalizing Patterns	Determine mathematical steps needed to solve patterns	8.14C, 8.16A, 8.16B
Every Day	Problem Solving		1A-C, 3 A-C,

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Math Models

6th 6 weeks
16 Teaching Days

Number of Days	Concept	Topics	TEKS
2	State Assessment		All Assessed TEKS
1	Identifying functions	Linear, Absolute value, Quadratic	2A.4A
1	Equations of Lines	Writing Equations of lines	2A.4A
1	Parent Functions	Linear, absolute value, quadratic	2A.4A
1	Transformations	Linear, absolute value, quadratic	2A.4B
2	Graphing	Lines	2A.4B
1	Inverse functions	Inverse functions	2A.4C
2	Domain and Range	Domain Range	2A.1A
1	Functions	Table, mapping diagram, equation, graph	2A.1B
1	Interpreting graphs	Scatter plots	2A.1B
1	Linear Inequality	Linear inequality Graphs	2A.1B
2	Final Review Final Exam		
Every Day	Problem Solving		1A-C, 3 A-C,