

Omega Grade Integrated Curriculum Map

Rainbow Community School 2014-2015

<u>THEMES</u>	Community Building	Haunted Tales	Personal Projects	Writing Workshop	Imagine
Months	August/ September	October/ November	December/January	February/ March	April/ May
<u>LA</u>	Sonnet Writing 6- Traits- Ideas Dictionary and Thesaurus skills Parts of Speech (POS) Spelling/ Vocab ON GOING Formatting Research Papers Structure & Strategies APA Formatting	Satire/ Allegory and Myth Writing/ Creation 6- Traits- Voice/ Word choice Dictionary and Thesaurus skills Punctuation Sentence types/ parts Structure & Strategies Persuasive Writing Myth/ Fable	Biography/ Persuasive Writing 6-Traits- Organization- Presentation Dictionary and Thesaurus skills Punctuation POS Structure & Strategies Expository/ Technical Research skills/ Formatting Speeches	Creative Writing 6-Traits- Sentence Fluency Dictionary and Thesaurus skills Punctuation POS Sentence types/ parts Structure & Strategies Book Report	Poetry Writing 6-Traits- Conventions Dictionary and Thesaurus skills Punctuation POS Sentence types/ parts Structure & Strategies Persuasive Poetry Unit
<u>Literature</u>	Summer Reading- Little Tree Theme Author's Purpose Style & Technique Novel- Renaissance- The Smile Critical Reading & Thinking Questioning Connections Evaluation Vocabulary	Novel: Mythology Shorts: News Articles Conflict Literary elements Style & Technique Critical Reading & Thinking Inferences Cause and Effect Evaluation Vocabulary	Novel: Woods Runner Shorts: Biographies Literary elements Style & Technique Critical Reading & Thinking Cause and Effect Sequencing Evaluation Vocabulary	Novel: Self Selected Novel Shorts: Poetry Literary elements Style & Technique Critical Reading & Thinking Prediction Purpose and understanding bias Evaluation Vocabulary	Novel: Poetry Shorts: Speeches Literary elements Style & Technique Critical Reading & Thinking Purpose/understanding bias Evaluation Vocabulary
<u>Social Studies</u>	Renaissance	Enlightenment/ Revolution	Civil Rights	Our Living Spaceship/ Resource Distribution	Information Age/ Innovation Age
<u>Science</u>	Science Fair/ Psychology <i>Human Body</i>	Astronomy/ Solar System/ Galaxies and Constellations	Electromagnetic Spectrum Human Body	Understanding Energy: Renewable Vs. Non-Renewable Energy Source(Oil)	Atmosphere & Ozone (Weather) Global Warming
<u>Technology</u>	Microsoft Word Formatting Typing	Microsoft Word Formatting Typing Microsoft Word PowerPoint Slide Show Links	Microsoft Word PowerPoint Slide Sow Links Microsoft Word Power Point Excel Formatting	Microsoft Word PowerPoint Excel Formatting Microsoft Word PowerPoint Excel Charts Graphs	Microsoft Word PowerPoint Excel Charts Graphs
<u>Gender Mysteries</u>	Sacred Circle Letter to self Astrology Water, fire, earth, air	Self expression Emotions Insecurities Public view	Self image Clothing and body Language Science and love (Puberty)	Relationships Trust & honesty Power & energy Gender roles & Animal Totems	Hopes and Fears Self reflection Question future Accept fears Acknowledge Accomplishments

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<u>Transition Math</u>	Reading & Writing Numbers - Integers - Order of Operations - Plotting points on a graph Using Variables - Evaluating Algebraic Expressions - Open Sentences - Graphing Inequalities	Representing Numbers - Fractions - Decimals, Fractions, & Percents - Probability Representing Sets of Numbers and Shapes - Always, Sometimes, Never - If-Then Statements - Union and Intersections	Patterns Leading to Addition and Subtraction - Models for Addition & Subtraction - Solving $x + a = b$ - Solving $x + a < b$ Some Important Geometry Ideas - Angles - Parallel Lines - Properties of Parallelograms	Multiplication in Geometry - Multiplication of Fractions - The Distributive Property - The Area of a Triangle Multiplication in Algebra - Solving $ax = b$ - Solving $ax + b = c$ - Solving $ax + b < c$	Patterns Leading to Division - Division of Fractions - Division in Equations and Inequalities - Proportions Linear Equations and Inequalities - Solving $ax + b = cx + d$ - Graphing $y < ax + b$ - Graphing $Ax + Bx = C$
<u>Integrated Math I</u>	Patterns of Change - Cause and Effect - Change over Time - Understanding Patterns of Change Patterns in Data - Exploring Distribution - Measuring Variability	Linear Functions - Modeling Linear equations - Linear Equations and Inequalities - Equivalent Expressions Discrete Mathematical Modeling - Euler Circuits - Vertex Coloring	Nonlinear Functions and Equations - Quadratic Functions, Expressions and Equations - Nonlinear Systems of Equations - Common Logarithms and Exponential Equations	Modeling and Optimization - Network Optimization - Using Critical Paths Trigonometric Methods - Trigonometric Functions - Using Trigonometry on ANY triangle	Probability Distribution - Probability Models - Expected Value - Distribution
<u>Polymath</u>	Basic Pre-requisites Decimals and Scientific Notation Measurement and Conversions History of Geometry Ratio and Harmony Compass Drawing Euclid's Elements	Pythagorean Math and Music Fibonacci Numbers and the Golden Section Geometric Perspective The Geometric Art of the Renaissance Platonic and Archamedian Solids 3D Model Construction School of Athens	Foundations of Algebra Hands-on and Symbolic Graphing Functions Exponents Cartesean Coordinate System Pascal's Triangle and Number Theory Newton's Principles Wave Mechanics Polyhedra and Angles The Mapping of Orbits Probability and Game Theory Integers	Buckminster Fuller and Synergetics Geodesic Architecture Architectural Drafting Architectural word problems Geometric Abstraction in Art and Architecture M.C. Escher and Tesselation	Fractal Geometry in Theory and Nature Cosmology and Topology Advanced 3D Construction Architectural Modeling Global Modeling Proportion and Scale