



Instructional Resources Logic Stage

Language Arts Methods and Resources	
<p><i>Note: The St. John Paul II Classical School Language Arts Curriculum is based primarily on the methods and resources of the Institute for Excellence in Writing, especially the instructional approach of “Teaching Writing: Structure and Style”.</i></p>	
<p style="text-align: center;">Methods</p> <p>Methods in Structure</p> <p><i>(The organizational models used for writing)</i></p> <ul style="list-style-type: none"> ● Verbal Pre-writing Strategies based on questioning ● Note-making and outlines ● Retelling Narrative Stories ● Summarizing a Reference ● Writing from Pictures ● Summarizing Multiple Resources ● Inventive Writing ● Formal Essay ● Formal Critique ● Writing about Literature ● Language Acquisition: Phonics, Grammar, mechanics, word banks <p>Methods in Style</p> <p><i>(Techniques modeled and mastered one at a time)</i></p>	<p style="text-align: center;">Resources</p> <ul style="list-style-type: none"> ● Classroom Supplement and Lesson Plans ● Models for Imitation ● Source Texts for each Unit (Aesop’s fables, etc.) ● Poetry selections

<ul style="list-style-type: none"> • Dress-ups • Adverbs for Essays • Banned Adjectives and alternatives • Sentence Openers • Decorations • Triple Extensions • Advanced Dress-ups • Vocabulary building though parts of speech instruction • Poetry Memorization <p>Logic (Grades 7-8)</p> <ul style="list-style-type: none"> • Memoria Press Logic • <i>Socrates Meets Jesus</i>, Peter Kreeft 	
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Nature Studies Resources	
Grade	<p>Note:</p> <p>The science curriculum is guided primarily by the teacher’s thoughtful integration of various resources in accordance with the general and grade specific objectives for nature studies. There are no textbooks. The Delta Science Modules offer a combination of hands-on experiments and related workbook activities. Anna Botsford Comstock’s <i>Handbook of Nature</i> provides an observational and experimental approach to the study of nature that is deeply human. C.S. Lewis’s <i>Abolition of Man</i> and Leon Kass’s <i>Being Human</i> provide an entry, through literature, into the ‘philosophical’ approach to the study of nature. At this point the teacher should also draw on Christopher Baglow’s <i>Faith, Science, and Reason</i> in order to provide structural coherence to the course and to introduce the historical and theological issues that accompany nature studies.</p>
6	<p>Topics</p> <ul style="list-style-type: none"> • Simple Machines, Delta Science Module III • Electromagnetism, Delta Science Module III • Matter and Change, Delta Science Module III <p>Teacher Resources</p> <ul style="list-style-type: none"> • <i>Handbook of Nature Study</i>, Anna Botsford Comstock • <i>Faith, Science, and Reason: Theology on the Cutting Edge</i>, Christopher T. Baglow • Nature Notebook (for the students to record and draw in) • <i>Archimedes and the Door of Science</i>, Jeanne Bendick
7	<p>Topics</p> <ul style="list-style-type: none"> • <i>You and Your Body</i>, Delta Science Module III • <i>DNA: Genes and Proteins</i>, Delta Science Module III • <i>Plants in Our World</i>, Delta Science Module III <p>Teacher Resources</p> <ul style="list-style-type: none"> • <i>Handbook of Nature Study</i>, Anna Botsford Comstock • <i>Being Human</i>, Leon Kass (selections)

	<ul style="list-style-type: none"> • <i>Faith, Science, and Reason: Theology on the Cutting Edge</i>, Christopher T. Baglow • <i>The Earth: A Human Habitat: The Exceptional Features of Our Small Planet</i>, Euresis • Nature Notebook (for the students to record and draw in)
8	<p>Topics</p> <ul style="list-style-type: none"> • <i>Earth Processes</i>, Delta Science Module III • <i>Earth, Moon, Sun</i>, Delta Science Module III • <i>Astronomy</i>, Delta Science Module III • Nature Notebook (for the students to record and draw in) <p>Teacher Resources</p> <ul style="list-style-type: none"> • <i>Handbook of Nature Study</i>, Anna Botsford Comstock • <i>Abolition of Man</i>, C.S. Lewis • <i>Being Human</i>, Leon Kass • <i>Faith, Science, and Reason: Theology on the Cutting Edge</i>, Christopher T. Baglow • <i>The Earth: A Human Habitat: The Exceptional Features of Our Small Planet</i>, Euresis

Grade	Mathematics Resources
6	<ul style="list-style-type: none"> • Main Programs • Saxon Math Grade 6 (Math76, Course I) • <i>Beginners Guide to Constructing the Universe</i>, Michael S. Schneider • <i>Constructing the Universe Activity Book</i>, Volumes 1-6, Michael S. Schneider • Related to Historical Time Period • <i>Agnesi To Zeno: Over 100 Vignettes from the History of Math</i>, Sanderson Smith • <i>Elements</i>, Euclid <p>Supplemental Texts</p> <ul style="list-style-type: none"> • <i>A Gebra Named Al: A Novel</i>, Wendy Isdell • <i>Alice in Wonderland and Through the Looking Glass</i>, Lewis Carroll • <i>The Phantom Tollbooth</i>, Norton Juster • <i>Alvin's Secret Code</i>, Clifford Hicks • The Brown Paper School Series, Marilyn Burns: • <i>The Book of Think</i> • <i>The I Hate Mathematics! Book</i> • <i>Math for Smarty Pants</i> and more • <i>Fascinating Fibonacci: Mystery and Magic in Numbers</i>, Trudi Hammel Garland • <i>String, Straight-Edge, & Shadow: The Story of Geometry</i>, Julia E. Diggins • Murderous Math Series, Kjartan Poskitt: • <i>Do You Feel Lucky: The Secrets of Probability</i> • <i>The Fiendish Angletron</i> • <i>Murderous Math</i> • <i>Numbers: Keys to the Universe</i> • <i>The Phantom X</i>

	<ul style="list-style-type: none"> • <i>Lewis Carroll's Games and Puzzles</i>, Lewis Carroll • <i>Math Trek: Adventures in MathZone</i>, Ivars Peterson and Nancy Henderson • <i>Donald Duck in Mathmagical Land</i> (DVD) • <i>Mad Minutes</i>, Paul Joseph Shoecraft and Terry James Clukey • <i>Tangrams: 330 Puzzles</i> by Ronald C. Read • <i>Hands On Math Projects, Grades 6-8</i>, Judith and Gary Muschela • <i>Math Fair Projects and Research Activities: A Comprehensive Guide for Teachers And Students</i>, Barry Doran and Leland Graham • <i>25 Super Cool Math Board Games</i> (Grades 3-6), Lorraine Hopping Egan • <i>Hands-On Math! Ready-To-Use Games & Activities for Grades 4-8</i>, Frances M. Thompson
<p style="text-align: center;">7</p>	<p>Main Programs</p> <ul style="list-style-type: none"> • <i>Saxon Math (Pre-algebra, Math 87, Course II)</i> • <i>Progress in Mathematic: Fundamentals of Algebra, Sadlier-Oxford</i> • <i>Progress in Mathematics: Foundations of Algebra, Sadlier-Oxford (advanced students)</i> • <i>Beginners Guide to Constructing the Universe</i>, Michael S. Schneider • <i>Constructing the Universe Activity Book</i>, Volumes 1-6, Michael S. Schneider <p>Related to Time Period</p> <ul style="list-style-type: none"> • <i>Agnesi To Zeno: Over 100 Vignettes from the History of Math</i>, Sanderson Smith <p>Supplemental Texts</p> <ul style="list-style-type: none"> • <i>The Joy of Mathematics: Discovering Mathematics All Around You</i>, Theoni Pappas • <i>Mathematical Quilts: No Sewing Required!</i> Diana Venters and Elaine Krajenke Ellison • <i>Conned Again, Watson! Cautionary Tales of Logic, Math, and Probability</i>, Colin Bruce • <i>The Man Who Counted: A Collection of Mathematical Adventures</i>, Malba Tahan • <i>A Gebra Named Al: A Novel</i>, Wendy Isdell • <i>Alice in Wonderland and Through the Looking Glass</i>, Lewis Carroll • <i>Fractals, Googols, and Other Mathematical Tales</i>, Theoni Pappas • The Brown Paper School Series, Marilyn Burns: • <i>The Book of Think</i> • <i>The I Hate Mathematics! Book</i> • <i>Math for Smarty Pants</i> • <i>Fascinating Fibonacci: Mystery and Magic in Numbers</i>, Trudi Hammel Garland • <i>String, Straight-Edge, & Shadow: The Story of Geometry</i>, Julia E. Diggins • <i>The Snark Puzzle Book</i>, Marin Gardiner (based on Lewis Carroll's nonsense poem <i>The Hunting of the Snark</i>) • <i>Lewis Carroll's Games and Puzzles</i>, Lewis Carroll <p>Math Teacher Resources</p> <ul style="list-style-type: none"> • <i>Donald Duck in Mathmagical Land</i> (DVD)

- *Mad Minutes*, Paul Joseph Shoecraft and Terry James Clukey
- *Hands On Math Projects, Grades 6-8*, Judith and Gary Muschela
- *Math Fair Projects and Research Activities: A Comprehensive Guide for Teachers And Students*, Barry Doran and Leland Graham
- *Hands-On Math! Ready-To-Use Games & Activities for Grades 4-8*, Frances M. Thompson

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Main Programs

- ***Saxon Math (Pre-algebra, Algebra)***
- ***Progress in Mathematics: Foundations of Algebra, Sadlier-Oxford***
- ***Progress in Mathematics: Algebra 1, Sadlier-Oxford (advanced students)***
- *Beginners Guide to Constructing the Universe*, Michael S. Schneider
- *Constructing the Universe Activity Book, Volumes 1-6*, Michael S. Schneider

Related to Historical Time Period

- *Agnesi To Zeno: Over 100 Vignettes from the History of Math*, Sanderson Smith
- *A History of Mathematics*, Carl B. Boyer
- *Journey Through Genius: The Great Theorems of Mathematics*, William Bunham
- *The Lady Tasting Tea: How Statistics Revolutionized Science in the Twentieth Century*, David Salsburg
- *Mathematical Apocrypha: Stories and Anecdotes of Mathematicians and the Mathematical*, Steven G. Krantz
- *The Mathematical Experience*, Philip Davis and Reuben Hersh
- *Of Men and Numbers: The Story of the Great Mathematicians*, Jane Muir

Supplemental Texts

- *Gödel, Escher, Bach: An Eternal Golden Braid*, Douglas Hofstadter
- *The Golden Ratio: The Story of Phi, the World's Most Astonishing Number*, Mario Livio
- *How to Solve It*, George Polya
- *The Joy of Pi*, David Blatner
- *Algebra Survival Guide: A Conversational Guide for the Thoroughly Befuddled*, Josh Rappaport
- *Algebra Unplugged*, Ken Amdahl and Jim Loats, Ph.D.
- *Math and Music: Harmonious Connections*, Trudi Hammel Garland and Charity Vaughan Kahn
- *The Joy of Mathematics: Discovering Mathematics All Around You*, Theoni Pappas
- *Mathematical Quilts: No Sewing Required!* Diana Venters and Elaine Krajenke Ellison
- *Fantasia Mathematica*, Clifton Fadiman
- *Flatland: A Romance of Many Dimensions*, Edwin Abbott

- *The Parrot's Theorem: A Novel*, Denis Guedj
- *Conned Again, Watson! Cautionary Tales of Logic, Math, and Probability*, Colin Bruce
- *The Man Who Counted: A Collection of Mathematical Adventures*, Malba Tahan
- *A Gebra Named Al: A Novel*, Wendy Isdell
- *Alice in Wonderland and Through the Looking Glass*, Lewis Carroll
- *Fractals, Googols, and Other Mathematical Tales*, Theoni Pappas
- The Brown Paper School Series, Marilyn Burns:
- *The Book of Think*
- *The I Hate Mathematics! Book*
- *Math for Smarty Pants*
- *Fascinating Fibonacci: Mystery and Magic in Numbers*, Trudi Hammel Garland
- *String, Straight-Edge, & Shadow: The Story of Geometry*, Julia E. Diggins
- *The Snark Puzzle Book*, Marin Gardiner (based on Lewis Carroll's nonsense poem *The Hunting of the Snark*)
- *Lewis Carroll's Games and Puzzles*, Lewis Carroll
- *The Colossal Book of Mathematics: Classic Puzzles, Paradoxes, and Problems*, Martin Gardner

Math Teacher Resources

- *Donald Duck in Mathmagical Land* (DVD)
- *Mad Minutes*, Paul Joseph Shoecraft and Terry James Clukey
- *Hands On Math Projects, Grades 6-8*, Judith and Gary Muschela
- *Math Fair Projects and Research Activities: A Comprehensive Guide for Teachers And Students*,
- Barry Doran and Leland Graham
- *Hands-On Math! Ready-To-Use Games & Activities for Grades 4-8*, Frances M. Thompson