Senior Math 1

2004-2005

Grade 12

Curriculum Committee Members

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Patterns
Probability
Data Analysis

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Exponential and Logarithmic Functions
Conic Sections

* Test results may help to determine which areas need to be reviewed or which areas can be eliminated.

Week 1

Topic: Test Taking Strategies

General:	Specific:
Familiarity with directions	Substituting
Pacing	Backfill
Practice	Scan answers
Keep place on answer sheet	No complicated arithmetic
Check your answer to question being asked	Fill in known items
	"Figure not drawn to scale"
All correct answers are equal in value	Test extremes
Incorrect answers are not equal in value	Generic answers
Guessing	Do the math

Amsco's: Preparing for the SAT I – Introduction

Topic: Diagnostic Model SAT I

Amsco's: Preparing for the SAT I – Diagnostic Model SAT I

Week 2 – 4

Topic: Diagnostic Model SAT I: Arithmetic

Amsco's Preparing for the SAT I – Diagnostic Model SAT I: Arithmetic

Topic: Fractions

Basic Operations
Word Problems

Amsco's Preparing for the SAT I – Category I, Part 3

Topic: Decimals

    Conversions
    SAT Type Problems

    Amsco's <u>Preparing for the SAT I</u> – Category I, Part 3

Topic: Percentages

    Fundamental Operations
    Three Typical Percent Problems
    Word Problems – Percent Increase/Decrease, Sales Price, Interest

    Amsco's <u>Preparing for the SAT I</u>- Category I, Part 3

Topic: Ratio/Proportions/Rate

    Definitions
    SAT Type Problems

    Amsco's <u>Preparing for the SAT I</u> – Category 1, Part 4

Topic: Mixed Word Problems

    Business
    Logic
    Motion

    Amsco's <u>Preparing for the SAT I</u> – Category 1, Part 6

Topic: Summary Model SAT I – Arithmetic

    Summary Model SAT I – Arithmetic

    Amsco's <u>Preparing for the SAT I</u> - Category 1

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<u>Week 5 – 7</u>

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Topic: Diagnostic Model SAT I: Algebra

    Amsco's <u>Preparing for the SAT I</u> – Diagnostic Model SAT I: Algebra

Topic: Algebraic Expressions

    Simplifying and Evaluating
    Exponents and Roots

    Amsco's <u>Preparing for the SAT I</u> – Category II, Part 1

Topic: Equations

    Solving with one variable
    Solving with several variables
    Solving more than one equation
    Algebraic fractions
    Quadratics
    Inequalities

    Amsco's <u>Preparing for the SAT I</u> – Category II, Part 2

Topic: Word Problems

    Translating words into algebra
    Numerical solutions
    Literal solutions

    Amsco's <u>Preparing for the SAT I</u>- Category II, Part 3

Topic: Cumulative Model SAT I – Arithmetic and Algebra

    Cumulative Model SAT I – Arithmetic and Algebra

    Amsco's <u>Preparing for the SAT I</u> – Category I & II

Week 8-10

Topic: Diagnostic Model SAT I - Geometry

    Diagnostic Model SAT I - Geometry

    Amsco's <u>Preparing for the SAT I</u> – Category III

Topic: Angles and Lines

Angles and lines

Amsco's Preparing for the SAT I – Category III, Part 1

Topic: Figures

Triangles
Special right triangles
Polygons
Circles

Amsco's Preparing for the SAT I – Category III, Part 2

Topic: Perimeter, Area and Volume

Perimeter and area of polygons
Circumference and area of circles
Circles and squares
Circles and polygons
Surface area and volume

Amsco's Preparing for the SAT I – Category III, Part 3

Topic: Coordinate Geometry

Points and lines
Slopes

Amsco's Preparing for the SAT I - Category III, Part 4

Topic: Cumulative Model SAT I – Arithmetic, Algebra & Geometry

Cumulative Model SAT I – Arithmetic, Algebra & Geometry

Amsco's Preparing for the SAT I - Category III

Week 11-13

Topic: Diagnostic Model SAT I - Miscellaneous

Diagnostic Model SAT I - Miscellaneous

Amsco's Preparing for the SAT I – Category IV

Topic: Number Patterns

Sequences and series
Special symbols

Amsco's Preparing for the SAT I – Category IV, Part 1

Topic: Probability

Counting principle
Probability

Amsco's Preparing for the SAT I – Category IV, Part 2

Topic: Data analysis

Average, mean mode
Bar graphs
Charts and graphs
Data charts

Amsco's Preparing for the SAT I – Category IV, Part 3

Week 14

Topic: Model Test

Model tests 1 – 5

Amsco's Preparing for the SAT I – Model tests

Week 15-17

Topic: Exponential and Logarithmic Functions

Exponential functions
Logarithmic functions
Converting exponential and logarithmic functions
Properties of logarithmic functions
Solving exponential and logarithmic equations
Natural logarithms and the number *e*

Addison –Wesley's Algebra and Trigonometry – Chapter 12

Additional Resources

See AMSCO's Achieving Proficiency in Mathematics (Fundamentals course text)
for lots of additional examples.

Also, see supplemental materials CD-ROM.
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