

# SAT PREPARATION CURRICULUM

OXFORD HIGH SCHOOL

**COURSE DESCRIPTION :** This is a half year course that reviews test-taking strategies and problem solving techniques, and encourages both long-term and short-term preparation for the SAT and other standardized assessments. Tips on improving computational and reasoning skills are included. Practice sessions guide students to a better understanding of the problems that commonly appear on the SAT and related tests. Offered junior or senior year only.

**PREREQUISITE:** Successful completion of Algebra 1 and Geometry and successful completion or current enrollment in Algebra 2.

**COURSE WORK:** Readings from the textbook will be supplemented by numerous practice tests organized by content area and difficulty level.

**TEXTBOOK:** CRACKING THE SAT, CURRENT EDITION

Robinson, Katzman, Staff of the Princeton Review

Random House Inc., New York

*It is highly recommended that students purchase the textbook since it includes not only the Mathematics section but also the Reading and Writing sections plus additional practice tests.*

## **CURRICULUM**

### **UNIT ONE : PRE-ALGEBRA**

NUMBER SENSE

FRACTION, DECIMALS, PERCENT

RATIO AND PROPORTIONS

DIVISIBILITY AND REMAINDERS

AVERAGES

APPLICATION PROBLEMS

### **UNIT TWO : ALGEBRA**

EXPRESSIONS

LINEAR EQUATIONS

INEQUALITIES

EXPONENTS AND ROOTS

FACTORS, MULTIPLES AND QUADRATICS

SEQUENCES

APPLICATION PROBLEMS

### **UNIT THREE : GEOMETRY**

COORDINATE SYSTEMS

PARALLEL AND PERPENDICULAR LINES

EMBEDDED FIGURES

TRIANGLES

**UNIT THREE : GEOMETRY (continued )**

PERIMETER

AREA

VOLUME

SIMILARITY

SLOPE

ANGLES

**UNIT FOUR : OTHER TOPICS**

COMBINATIONS, DISTRIBUTION

PROBABILITY AND STATISTICS

NEWLY DEFINED SYMBOLS

INTERPRETING GRAPHS, CHARTS, AND TABLES

LOGIC

**UNIT FIVE : DIFFICULT PROBLEMS**

HIGHLY CHALLENGING PROBLEMS TAKEN FROM PREVIOUS UNITS