

## SAT MATH SYLLABUS

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WK	DATE	CONTENT	MAIN POINTS
1	09/12/2009	Intro	Introduction, new term outline, test-out
2	09/19/2009	Basic Algebra	Equations, inequalities, absolute value, etc.
3	09/26/2009	Functions	Basic functions & solving skills
4	10/03/2009	Advanced Func.	Quadratic functions, other polynomials
5	10/10/2009	Graph of Func.	Graph related problems & skills
6	10/17/2009	More Func.	Exponential, Logarithm
7	10/24/2009	Review	Review of algebra from previous weeks
<b>8</b>	<b>10/31/2009</b>	<b>Mid-term</b>	<b>NO homework next week</b>
9	11/07/2009	Geometry	Angles, lines, simple geometry, circles
10	11/14/2009	Trig	Geometry definition & Trig equations
11	11/21/2009	Trig	Trig equations & Trig functions
	11/28/2009	Thanksgiving	
12	12/05/2009	Miscellaneous	Word problems, symbol problems
13	12/12/2009	Counting	Probability, combination, permutation
14	12/19/2009	Matrices*	Linear system equations & Gauss Elimination
	12/26/2009	Christmas	
	01/02/2010	New Year	
15	01/09/2010	Review	Review led by instructor
16	01/16/2010	Review	Review led by student through questions & discussion
<b>17</b>	<b>01/23/2010</b>	<b>Final</b>	<b>Keep up the good work &amp; Good luck on your SAT!</b>

\*This session can be changed to "intro to calculus" based on students' interests

### *WHAT ARE THE OBJECTIVES?*

- To learn SAT and general math skills with difficulty level significant above the level of SAT and the level in your school
- To master non-calculus algebra concepts and skills as well as geometry, trigonometry, and basic statistics

### *HOW DOES THIS CLASS WORK?*

- To better train students for better studying habits, this class will be taught combined with **college method**, which includes selected-grading of homework, student-led Q&A review session.
- **TAKE** notes and **DO** your homework!
- Each homework assignment is worth at least 20pts. **All** Real SAT problems will be graded and they are **10pts**. Total pts in the end of this term will determine your prize!
- **File** all class materials **and** homework assignments!
- Spend time **studying** and **practice** real SAT problems after class (you should have some SAT prep if you want to succeed in SAT).
- Feel free to email me with any problems, from what you learn from my class or from your school, and not only limited for math problems!
- Please develop a habit of timing yourself whenever you do your homework!