华夏糖城数学强化提高类



内容涵盖 K-12,从小学,初中到高中的数学知识点,通过老师们的讲授和习题训练让华夏学 生数学有一个高起点,提前先修,扎实基础,增强信心,培养兴趣。

2021 Fall HXSL Sunday Math Schedule

Course	课程	Teacher	Date	Class Time	Class Room
HuaXia Math Enrichment 1st Grade Class	华夏数学一年级班	徐菁微	星期日	11:00 AM To 12:00 PM	Online视报名情况开班
HuaXia Math Enrichment 2nd Grade Class	华夏数学二年级班	徐菁微	星期日	12:00 PM To 01:00 PM	Online视报名情况开班
HuaXia Math Enrichment 3rd Grade Class	华夏数学三年级班	孔红	星期日	11:00 AM To 12:00 PM	Online视报名情况开班
HuaXia Math Enrichment 4th Grade Class	华夏数学四年级班	谌怡	星期日	11:00 AM To 12:00 PM	Online视报名情况开班
HuaXia Math Enrichment 5th Grade Class	华夏数学五年级班	陈嘉连	星期日	01:00 PM To 02:30 PM	Online视报名情况开班
Pre-Algebra Class	Pre-Algebra班	曹娟娟	星期日	09:00 AM To 11:00 AM	延续班Online
Algebra 1 Class	Algebra 1班	曹娟娟	星期日	11:00 AM To 01:00 PM	延续班Online
Geometry (7th, 8th Grade) Class	几何辅导(七・八年级)班	林子平	星期日	02:00 PM To 04:00 PM	Online
Algebra 2 Class	Algebra 2班	林子平	星期日	04:00 AM To 06:00 PM	Online
Pre Calculus Class	预备微积分班	林子平	星期日	11:00 AM To 01:00 PM	Online
SAT Math Prep Class	SAT数学辅导班	刘立峰	星期日	04:00 PM To 06:00 PM	Online

2021 Fall HXSL Saturday Math Schedule

Course	课程	Teacher	Date	Class Time	Class Room
HuaXia Math Enrichment 1st Grade Class	华夏数学一年级班	徐菁微	星期六	11:00 AM To 12:00 PM	108
HuaXia Math Enrichment 2nd Grade Class	华夏数学二年级班	徐菁微	星期六	12:00 PM To 01:00 PM	108
HuaXia Math Enrichment 3rd Grade Class	华夏数学三年级班	孔红	星期六	11:00 AM To 12:00 PM	107
HuaXia Math Enrichment 3rd Grade Class Two	华夏数学三年级二班	孔红	星期六	12:00 PM To 01:00 PM	107
HuaXia Math Enrichment 4th Grade Class	华夏数学四年级班	谌怡	星期六	02:00 PM To 03:00 PM	110
HuaXia Math Enrichment 4th Grade Class Two	华夏数学四年级二班	谌怡	星期六	01:00 PM To 02:00 PM	110
Quick Math (4-5G) Class	数学速算(4-5G)班	唐军平	星期六	11:00 AM To 12:30 PM	online
HuaXia Math Enrichment 5th Grade Class	华夏数学五年级班	陈嘉连	星期六	01:00 PM To 02:30 PM	112
Fifth Grade Math/ PreCBE Class	五年级数学/预备CBE班	陈嘉连	星期六	02:30 PM To 04:00 PM	112
SSAT/ISEE Math Class	SSAT/ISEE Math班	刘立峰	星期六,一	04:00 PM To 06:00 PM	Online Sat/Mon6:00- 8:00Pm
Pre-algebra (5/6G) Class	预备代数(5/6 G)班	曹娟娟	星期六,二	11:00 AM To 12:30 PM	OnlineTue7 :00- 8:30
Algebra I Class	代数1班	曹娟娟	星期六	12:30 PM To 02:30 PM	Online
Geometry (7th, 8th Grade) Class	几何辅导(七・八年级)班	刘立峰	星期六	02:00 PM To 04:00 PM	online
Algebra II Class	Algebra II班	刘立峰	星期六	11:00 AM To 01:00 PM	Online
Pre Calculus Class	预备微积分班	林子平	星期六	09:00 AM To 11:00 AM	online
<u>CM L11</u>	Number Sense班	<u>于成飞</u>	星期六	11:00 AM To 01:00 PM	Online
AMC 8 (Gr. 7-8) Class	AMC 8 (Gr. 7-8)班	刘立峰	星期六	09:00 AM To 11:00 AM	Online

1st Grade Math Enrichment Class





Ms. Xu has been a teacher at Hua Xia Chinese School since 2018. She is passionate to teach children in primary schools particularly in math education. She feels that a special attention should be paid to developing children's love with the math subject.

Target Students: rising 1st grade students or age 5 ~ 6 yrs. *****Prerequisite:** must completed kinder grade math.

Course Description: This course is designed to aim the students to preview and study according to FBISD TEKS guidelines 1st grade math academic courses.





2nd Grade Math Enrichment Class





Instructor: Michelle Xu

Ms. Xu has been a teacher at Hua Xia Chinese School since 2018. She is passionate to teach children in primary schools particularly in math education. She feels that a special attention should be paid to developing children's love with the math subject.

Target Students: rising 2nd grade students or age 7 ~ 8 yrs. ***Prerequisite: must completed 1st grade math.

Course Description: This course is designed to aim the students to preview and study according to FBISD TEKS guidelines 2nd grade math academic courses.

Content: Addition and Subtraction algorithms (2-digits to 3-digits), comparison, 2D/3D geometry, shapes, fractions, word problems, measurements, time, and money conversion. Plus, 3rd grade basic Multiplication Table (0-10) and Division algorithms (1-digit to 2-digits).



Target Students: Rising to 3rd Grader 招收学生:已完成二年级数学的学生

Required Prerequisites:

Master 2-digits addition and Subtraction. Some knowledge of multiplication and division.

课前知识预备:

熟练掌握两位数的加、减法运算, 初步了解乘、除法的概念。 Ms. Kong is a certified Montessori teacher, CDA and Oversea Chinese Teacher Certificate of Accreditation holder. She has been working in Huaxia Chinese School for more than 12 years. She likes to apply her knowledge to create a child friendly environment and a good learning atmosphere for her students. So, the students will accomplish more and build up their positive self-esteem and self-confidence.

3rd Grade Math Course Purpose:

This course aims to assist student grasp all the Math Concepts and knowledge in 3rd Grade STAAR.

Course Syllabus:

Numbers to 10,000; 4-digit addition and subtraction; Multiplying Ones, Tens and Hundreds; Dividing Hundreds, Tens and Ones; Quotient and remainder; Two-step Word Problem solving; Multiplication Table; Money; Mental Calculation; the Units of Length, Weigh and Capacity convert; Bar Graphs; Fraction of a Whole; Equivalent Fractions; Time; Angles, Right Angles; Area and Perimeter

Hua Xia Math 4th Grade

Instructor: 谌怡 博士

Target Students:

For Students go to Grade 4 This course aims to **preview** the main TEKS or difficult skills in Grade 4.

Required Prerequisites: Familiar with four operation, fractions. Ms. Chen graduated from Tianjin University with a doctoral degree in Chemical Engineering in 2009. She had many years of working experience both in academics (Rice University and Texas A&M U) and industries (Schlumberger). In 2008, Ms. Chen joined Huaxia Chinese School, and started her teaching career. She is currently a certified math teacher at Stafford MSD.

Course Syllabus

Level 4		Saturday				
8 weeks 8 lessons (June 5-July 31)						
week1	Operations and fraction	on basics checking				
week2	Division (divisor is 1 o	r 2 digits) & Order of operations				
week3	Fraction equivalent, s	imply/reduce				
week4	Fraction comparison/	ordering				
week5	Fraction addition & su	ibtraction				
week6	Decimal intro, locate	decimal on number line				
week7	Decimal comparison;	decimal addition & subtraction (Word problems)				
week8	Wrap up					

Hua Xia Math 5th Grade

Teacher's Biography: I graduated from University of Houston with a Bachelor Science degree of Interdisciplinary Studies EC-6 Bilingual (Spanish) and have been teaching since I've worked with 5th graders for 9 years in Math in both Spanish and English at a charter school. Currently, I'm teaching at a public elementary school as a Math Interventionist This is my first year joining Huaxia Chinese School. I'm very eager to meet my new students and help them succeed in their goals.

Target Students:

For Students go to Grade 5 This course aims to **preview** the main TEKS or difficult skills in Grade 4.

Required Prerequisites:

Familiar with four operation, fractions.

Instructor: 陈嘉连老师

Course Syllabus

Categories	Objectives
Whole Number Operations	 Estimation of Whole Numbers Addition/Subtraction of Whole Numbers Multiplication/Division of Whole Numbers Numerical Expressions All Operations of Whole Numbers Decimals
Decimals	 Representation of Decimals Comparison of Decimals Estimation of Decimals Addition/Subtraction of Decimals Multiplication of Decimals Division of Decimals Numerical Expressions Fractions
Fractions	 Estimation of Fractions Addition/Subtraction of Fractions Multiplication of Fractions Division of Fractions Graphing on Coordinate Plane
Graphing on Coordinate Plane	 Coordinate Plane Graphing Numerical Patterns Geometry and Measurement
Geometry and Measurement	 Two-Dimensional Perimeter/Area/Volume Conversions Data Analysis
Data Analysis	Representation of DataInterpretation of Data
Personal Financial Literacy	BudgetsTaxes

Hua Xia Math 5th Grade/Per CBE

Instructor: 陈嘉连老师

Teacher's Biography: I graduated from University of Houston with a Bachelor Science degree of Interdisciplinary Studies EC-6 Bilingual (Spanish) and have been teaching since I've worked with 5th graders for 9 years in Math in both Spanish and English at a charter school. Currently, I'm teaching at a public elementary school as a Math Interventionist This is my first year joining Huaxia Chinese School. I'm very eager to meet my new students and help them succeed in their goals.



for 5th graders who want to skip 6th grade math Target Students:

5th grade students who will take the CBE 6th grade Math Required Prerequisite:

5th Grade Math Textbook and Resources: TBA

Course Syllabus

Categories	Objectives
Representation and Comparison of Rational Numbers	 Representation of Real Numbers Comparison of Real Numbers
All Operations with Rational Numbers	 Multiplication/Division with Positive Rational Numbers All Operations with Integers
Proportional Reasoning	 Fractions/Decimals/Percent's Ratios/Rates Conversions
Expressions, Equations, and Inequalities	 Order of Operations Representation and Solutions of Equations/Inequalities
Algebraic Representations	Coordinate PlanesLinear Representations
Geometry and Measurement	ConversionsTrianglesArea/Volume
Data Analysis	 Representation/Interpretation of Data Measures of Data
Personal Financial Literacy	 Banking Credit Post-Secondary Education Planning

Quick Math

Instructor: 唐军平博士

Dr. Tang has background in Physics, Biophysics. He obtained his Ph. D in engineering from UT Austin.

Required perquisite: Basic knowledge in arithmetic operations, including multiplication and division.

Target Students: 3rd grade to 5th grade, who have basic knowledge in arithmetic operations.

Course Syllabus: This course is designated to improve children's ability of mental math (or speed math). We all know the importance of memorizing 9 x 9 multiplication table in calculation. But more often students have to be able to handle the calculation of multi-digit number quickly instead of by standard procedures taught at school. Most of calculation involving multi-digit number can be performed based on skills learned in calculation involving 2-digit number (99x99 multiplication table). Such calculation ability will greatly help student in the future study of math. The topics will be covered in class are but not limited to:

- Properties of addition and their application in speed math;
- Properties of subtraction and their application in speed math;

•Properties of multiplication (Such as commutative, associative, and distributive rules) and their application in speed math;

• Properties of division and their application in speed math;

Pre Algebra

Instructor: 曹娟娟 博士

Description

This course formally introduces students to the language of algebra. It teaches students how to translate word phrases and sentences into mathematical Expressions, Equations, and Inequalities using Variables and how to solve Simple Linear Equations and Inequalities.

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Objectives:

After completion of this course, students should be able to:

1 understand and work with variables and variables expressions

2 solve equations and inequalities with one variable 3 understand linear functions and their graphs and use them to solve problems.

4 Be ready to continue with Algebra. CBE and Geometry.

A Ph. D in Geophysics from University of Texas at Dallas. Juanjuan received Texas Standard Teacher Certificate in 7-12 Mathematics and Science from Texas Education Agency (TEA) in 2017. now she is teaching at a public high school in Houston independent school district.

Contents

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- Absolute Value and Operations with Positive and Negative Integers
- Factors and Fractions

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- Rational Numbers
- Ratio, Proportion, and Percent
- Functions and Graphing
- Simple Equations and Inequalities
- Real Numbers and Right Triangles
- Two-Dimensional Figures
- Three-Dimensional Figures



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 $\operatorname{Re}(\Gamma)$

Instructor: 曹娟娟博士

Re(z)

A Ph. D in Geophysics from University of Texas at Dallas. Juanjuan received Texas Standard Teacher Certificate in 7-12 Mathematics and Science from Texas Education Agency (TEA) in 2017. now she is teaching at a public high school in Houston independent school district.

Course Syllabus Target Students: 7-8 grades

Courses Descriptions:

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This is a first algebra course in which you will learn fundamental algebraic skills and applying them in variety problem-solving situations. Students will explore: solving systems of two linear equations in two unknowns. Solving quadratic equations by factoring, completing the square and quadratic formula. Solving quadratic inequalities. The course also includes basic concepts and operations of functions.



Objectives: After completion of this course, students should be able to:

- 1 Solve system of linear equations
- 2 Factor quadratics
- 3 Solve quadratic equations and inequalities
- 4 Understand functions and their basic operations
- 5 Solve application problems using above techniques
- 6 Develop algebra skills and apply them
- 7 Develop the ability to communicate mathematics with symbols and language

Contents in brief Unit 1 Multi-variable expressions

- 1 Evaluating multi-variable expressions
- 2 Distribution and factoring
- 3 Fractions and equations
- Unit 3: system of linear equations and inequality 1 more variables equations

华夏林子平老师数学网课



(游戏室成了网课直播室,摄于2020年4月3日)

2020年初,华夏,为了应对初露狰容的Covid-19疫情,林 子平老师给预科代数,代数I,几何,代数II,以及预科 微积分,八个班级的学生和家长们发了Email "The Zoom Experiment",正式启动了线下实体课&线上Zoom网课并行 教学。

林老师教学认真负责,注重学生对概念的理解,强调学 生的表达能力,倡导课堂中的互动,充分结合现代科技 以及他在工程,计算机,数学,统计,投资,教学各领 域的实际工作经验,进行数学教学,在华夏这个大家庭, 深受学生喜爱和家长的认可。 Mr. Lin has been passionately teaching Pre-Algebra, Algebra I, Geometry, Algebra II, SAT Math, Pre-Calculus, and Calculus to middle & high school students for more than 10 years. Benefitted from his education and research in Signal Processing and Statistics, plus his work experience as an electronics engineer and a software developer for 中科 院光机所, Halliburton, Exxon, and BMC Software, Mr. Lin is a seasoned stock investor & option trader and a passionate math teacher.

浙江大学电机系学士学位, Bachelor of Science
上海交大电机系硕士学位, Master of Science
University of California, Davis, 统计系, Ph.D. Program
休斯敦大学电机系工程硕士学位, Master of Engineering
中科院光机所,电子工程师
Halliburton, 软件开发工程师
Exxon,软件开发工程师
BMCSoftware, 软件开发工程师



上半册(1st half)

- Inductive & Deductive Reasoning, Conditionals and Proof
- Angle Relations, Parallel and Perpendicular Lines
- Angle Theorems, Congruent Triangles, SSS, SAS, ASA, AAS and HL
- Relationships in Triangles, Formations of Circumcenter, Incenter, Centroid, and Orthocenter, Triangle Inequality, Hinge Theorem.
- Quadrilaterals, Sum of Interior Angles, Sum of Exterior Angles/
- Proportions and Similarity, Special Segments.

Course Description

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incident

Geometry Concepts make up a significant portion of SAT Math. This course helps students to recognize and work with geometric concepts. They build on ideas of inductive and deductive reasoning, logic, concepts, and postulates and theorems of Euclidean plane and solid geometry. Students use a software to aid visualizations, spatial reasoning, and geometric modeling to solve problems.

下半册(2nd half)

- Proportions and Similarity, Special Segments.
- Right Triangles (Pythagorean Triples and Special Right Triangles) and Trigonometry, Law of Sines and Cosines.
- Transformations(Translation, Reflection, Rotation, and Dilation) and Vectors
- Circles, Arcs, Chords, Central and Inscribed Angles, Tangents, Secants, Equations of Circles.
- Areas of Polygons and Circles
- Extending Surface Area & Volume

Algebra II

Instructor: 林子平老师

Target Students:

8-10th graders who has completed algebra I and geometry

Algebra II and Algebra I makeup Passport to Advanced Math in SAT Math. This course will progressively and systematically teach student some of the more difficult and advanced concepts in Algebra. The class will use math software to help student visualizing some of the concepts and building solid foundation for Pre-Calculus and eventually Calculus.

上半册(1st half)

- Compound Inequalities, Absolute Value Equations and Inequalities
- Relations and Functions, Domain and Range, Special Functions, Graphs of Piecewise Inequalities
- Systems of Equations in 3 Variables & Graphic Interpretation Systems of Linear Inequalities, and
 Linear Programming
- Matrices and Its Application in Transformation and System of Linear Equations.
- Complex Numbers, Quadratic Functions and Inequalities, Vertex Form and Graphic Transformation of Quadratics
- Long and Synthetic Division of Polynomials, Polynomial Functions, and Fundamental Theorem of Algebra
- 下半册(2nd half)

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- Long and Synthetic Division of Polynomials, Polynomial Functions, and Fundamental Theorem of Algebra
- Inverse Relations and Functions, nth Roots, Radical Equations and Inequalities
- Complex Fractions, Rational Equations and Inequalities, Graphs of Rational Functions, Asymptotes, and Points of Discontinuities,
- Exponential and Logarithmic Functions, Common & Natural Logarithms, and Logarithmic Equations and Inequalities
- Conic Sections (Parabolas, Circles, Ellipse, and Hyperbolas), Standard Form, Systems of Quadratic
 Equations and Inequalities
- Arithmetic & Geometric Sequences and Series, Sigma Notation, Recursion and Special Sequences
- $x = -b \pm \sqrt{b^2} + 4ac$

Pre-Calculus

Instructor: 林子平老师

Students: 10th-12th grade

Pre-requisites: Algebra II, Geometry

Prepare for: Calculus, SAT Subject Test in Mathematics Level 2

Course Description

Calculus developed by Isaac Newton and others has wide applications in Physics and other natural sciences, Engineering, and Economics. HuaXia Pre-Calculus is aimed to help student prepared for the All-Important Calculus. This course will progressively and systematically teach student some of the advanced concepts in Pre-Calculus and introduce Limits, Derivatives and Antiderivatives, and the Fundamental Theorem of Calculus.

上半册(1st half) Friday/Saturday 06/18/21-08/14/21 4 Hour /week

1 Linear Equations & Inequalities, Compositions of Functions and Piecewise Functions

- 2 Systems of Linear Equations & Inequalities, and Matrices, Linear Programming
- 3 Families of Graphs Symmetry, Continuity, Critical Points & Extrema and End Behavior

4 Remainder and Factor Theorems, Zeros, Lower & Upper Bounds for Polynomial, Rational Functions & Partial Fractions, and Radical Functions & Inequalities

5 Unit Circle, Trigonometric and Periodic Functions, Law of Sines (including Ambiguous Case) and Cosines

6 Linear and Angular Velocities, Graphs of The Trigonometric and Inverse Functions, and Amplitude & Period & Phase Shift.



刘立峰老师课程介绍

INSTRUCTOR -KEVIN LIU 刘老师

ACHIEVEMENTS AND TEACHING AND PRINCIPLES

教学成就和特色

刘立峰老师毕业于上海交通大学和北京大学,从事多年高中数学,物理和化学的教学。刘老师有着深厚的理科功底,他非常 熟悉美国高中阶段理科课程的特点,尤其是对SAT、AP等标准化考试有很深入的研究和体会。他善于帮助学生掌握应试技 巧和引导逻辑思维,使学生在很短的时间内大幅度提高分数。在以往的考试中,绝大多数经过他辅导的学生都获得SAT数学 和AP课程满分。刘老师授课方式灵活,讲解循序渐进,强调理解重于记忆,引导学生举一反三,培养高效的思维能力和和 良好的学习习惯!

• Most of students received full score in subjects 绝大多数学生取得满分成绩	FALL COURSES
• SAT Math - 800/800	лис ф
• AP Calculus AB/BC - 5/5	MINO O
• AP P hysics 1/C- 5/5	
• AP Chemistry - 5/5	AMC 10
• IB Physics - 7/7	
• ISEE Math - 8/9	ICEE /CCAT
 Teaching in both English and Mandarin 	1511/55×1
中英双语教学,以英语授课为主	
• Cultivation of Learning Habits and Interests, and Emphasis of Critical Thinking	GEOMETRIC
以培养学习习惯和兴趣为主线,强调逻辑思维训练	
• AVAILABLE SUBJECTS 涉及课程	
• Physics 物理:AP Physics I/II/C,SAT Subject Physics,IB Physics	ALGEBKA I
• Math 数学: SAT/ACT Math, SAT Subject Math L2, IB Math, AP Calculus AB/E	SC,
SSAT/ISEE Math, Algebra I/II, Geometry, Pre-Calculus, AMC 8/10/12	SAT MATH
• Chemistry 化学:AP Chemistry,SAT Chemistry,Honor Chemistry	

SSAT/ISEE MATH

FOR UPPER LEVEL

授课时间: 第一期 SSAT/ISEE MATH: SAT:4:00-6:00; MON: 6:00-8:00 08/14/2021-10/09/2021

SSAT和ISEE基本问答

刘立峰 老师

- SSAT,全称Secondary School Admission Test,中文名称为美国中学入学考试,适用于美国、加拿大私立中学的入学,是申请者所必须具备的一个考试成绩。
- Independent School Entrance Exam考试(简称: ISEE)是美国独立的全国性私立中学入学考试,由独立学校入学考试办公室(ISEE Operations Office)和位于纽约的教育档案局(Educational Records Bureau)主办,主要考察学生文字和数字的推理能力。同时,ISEE如同SSAT考试一样,也有短篇的命题作文,但作文不记分,会被送到报考学校的招生部门作为录取的参考。
- SSAT和ISEE都是申请高中入学考试,大部分顶尖私立寄宿高中都会去要求SSAT,ISEE会是一个可替代的选择,但更多使用ISEE的都是走读学校,而不是寄宿学校。
- SSAT和ISEE两种考试内容相似,均由英文、数学、作文组成,难度也是相同,只是考试形式有一定区别,SSAT以写一篇论文开始,ISEE以写一篇论文结束。
- 从分数需求层面来看,如果是顶尖学校,分数要求会很高,建议孩子SSAT考出95%以上,ISEE也是,百分比也要考的越高,竞争力才会更强。
- ISEE的数学部分会比较难 · SSAT的词汇和阅读比较难 · 因此主要看孩子更擅长哪方面 · 并且 · ISEE在一个申请季内只允 许参加三次考试 · 参加考试的时间段也有规定 · 因此学生的压力会大一点 · 而这方面SSAT的限制就比较少 ·
- SSAT和ISEE主要区别在于成绩在申请时的适用性上,SSAT范围更广,但申请的学校可以接受ISEE也是没有问题的。如果 同时接受两个考试,考哪一个都可以。同时ISEE出分时间更快,机考48小时就能出分,考试注册也更灵活,只要确认考 点开放就可以参加,相比SSAT需要提前报名,出分时间也要在10天左右,所以针对没有ISEE或SSAT成绩,学校又要求提 供的考生中,为了不耽误申请可以优先考虑ISEE,可以将成绩尽快递交给学校。

- ISEE的数学部分考试包含两部分:
 - 数量推理(Quantitative Reasoning):
 - 该考试内容包括文字题(Word Problem)和数量比较(Quantitative Comparison)两部分
 ,主要考察学生对数学概念的理解和应用,包括:数字、运算、代数、几何、测量、数据分析和概率及解决问题等方面的知识和能力。
 - 低级ISEE考试只有文字题,要求35分钟内完成38道题;中、高级ISEE考试既有文字题也有数量比较题,要求35分钟内完成37道题。
 - 数学(Mathematics Achievement):
 - 该考试内容考查学生的数学知识和技巧、运算理解和应用能力及算数、代数和几何的学科知识。
 - 低级ISEE考试要求30分钟内完成30道题;中、高级ISEE考试要求40分钟内完成47道题。
- SSAT数学部分:
 - 具有涉及知识点多但整体难度系数并不高的特点,是大多数考生冲刺高分的首抓科目。它不要求考生掌握复杂的运算解题技巧与概念的变形延伸等,而是更注重考生对于基本概念的理解与对实际问题的分析能力。这一科目要注重的一是数学类专业词汇的积累,二是涵盖的知识点要掌握全面。
 - 针对不同年龄的学生,初级(Elementary Level)知识点涵盖较少内容简单,高级(Upper Level)和中级(Middle Level)知识点涵盖较多且有很多交叉重叠的部分,个别 难点知识点考查存在区分。
 - 但从近两年几次考试的考情来看,数学部分呈现难度逐渐递增的趋势,需要引起重视

SYLLABUS PREPARATION COURSE

SAT MATH Instructor: 刘立峰老师

Class Introduction

- SAT is a standard test with moderate difficulty, students realize that it is not easy to achieve high scores on Math section without systematic training because of wide range of questions and scattered knowledge points. This training focuses on all knowledge points and question types of SAT math. Through practice and training, students will be able to skillfully understand and master the necessary test-taking skills, develop good habits on checking, learn to reasonably manage and control the pace of the test, easily cope with the SAT math test, and achieve ideal results.
- SAT是考核型标准测试,难度系数中等,但数学部分题目涉及范围广,知识点零散,学生们感觉如果没有经过系统训练取得高分并不容易。本次培训针对SAT数学所有知识点和题型进行归类总结,通过练习和培训,学生们能够熟练理解和掌握必要的应试技巧,养成良好的考试习惯,学会合理管理和控制考试节奏,轻松应对SAT数学的考试,并取得理想的成绩。



Class Schedule

- SAT Math Overview (6 hours)
 - Introduction of SAT Math (0.5 Hr)
 - Selected Practice Questions Review and Introduction Question Types (5 Hrs)
 - Self Evaluation for Students (0.5 Hr)
- PEMDAS (2 hours)
 - PEMDAS (1 Hr)
 - GCD and LCM (1 Hrs)
- Expressions and Equations (4 hours)
 - Number Theory (0.5 Hr)
 - Expressions and Combining Like Terms (0.5 Hr)
 - Factoring (0.5 Hr)
 - Linear Equations (0.5 Hr)
 - Quadratic Equations (1 Hrs)
 - Other Equations (0.5 Hr)
 - System of Equations (0.5 Hr)
- Functions (10 hours)
 - Linear Functions and Applications (4 Hrs)
 - Function Transformation (1 Hr)
 - Quadratic Functions and Applications (3 Hrs)
 - Exponential Functions and Applications (1 Hr)
 - Other Special Expressions and Functions (1 Hr)
- Geometry (4 hours)
 - Parallel Lines and Angles (0.5 Hr)
 - Triangles (2 Hrs)
 - Circles (1 Hr)
 - Trigonometry in Triangles (0.5 Hr)
- Statistics and Probability (4 hours)
 - Statistics Concepts (1 Hr)
 - Charts and Plots (1 Hr)
 - Sample Space (1 Hr)
 - Probability (1 Hr)
- Summary with Strategies (2 Hours)