

Huaxia Gifted and Talented Prep Level –I

Teacher/教师: Dr. Shu Feng

Register(注册): www.Houstonhuaxia.org Phone (电话): 281-798-3016

Aims: To help students build up cognitive ability, critical thinking, logical thinking and abstract thinking abilities such as classifying and categorizing, recognizing patterns and sequencing, reasoning with shapes and figures, deductive and inductive reasoning, mathematical reasoning and problem solving. By achieving these abilities, students will not only get well prepared for Gifted and Talented (GT) screening tests in their school district, but also build up a solid foundation for academic excellence and success in any assessments.

Contents: The Gifted and Talented Prep Level II course is designed to provide students with the opportunity to study the main contents of a variety of tests used by the Greater Houston area to identify children for GT programs, including but not limited to COGAT, OLSAT, and NNAT and IOWA Assessments. Students will be trained in **Verbal reasoning** (verbal comprehension, aural reasoning and verbal classification), **Arithmetic reasoning** (number analogy, number series and number puzzles) and **Non-verbal reasoning** (Pictorial reasoning and Figural reasoning: picture analogy, figure analogy, picture classification, figure classification, pattern matrix, serial reasoning, pattern completion and spatial visualization).

Students:

1. K and 1st Graders (5 – 7 year old) who plan to take the screening tests for admission into the Gifted and Talented programs or highly-selective public school in Great Houston area.
2. All K and 1st Graders in both Public schools and Private Schools (including those that have already admitted to GT programs) who want to learn and build up strong cognitive ability, critical thinking, logical thinking and abstract thinking abilities.



Shu Feng, MD., Ph.D., is an Assistant Professor at Baylor College of Medicine. She has been passionate about educating the future generations. Dr. Feng has been teaching the weekend Gifted and Talented Preparation courses and basic Math Enrichment courses at Houston Huaxia Chinese School for years. Many students from her GT Prep classes have successfully entered into their local GT programs or highly selected public schools with excellent GT test scores. In her GT and Math classes, Dr. Feng not only teaches students about math and GT knowledge, but most importantly, she strives to inspire their curiosity, promote their critical, logical and abstract thinking abilities and help them build a solid foundation for academic excellence and success in any assessments.

Teacher: Dr. Shu Feng **Phone:** 832-660-1759 **Email:** shu.feng@houstonhuaxia.org

Huaxia Gifted and Talented Prep Level –II

Teacher/教师: Dr. Shu Feng

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Students: 1. 2nd and 3rd Graders (8 – 9 year old) who plan to take the GT screening tests for admission into the Gifted and Talented programs or highly-selective public school in Great Houston area.
2. All 2nd and 3rd Graders in both Public Schools and Private schools (including those that have already admitted to GT programs) who want to learn and build up strong cognitive ability, critical thinking, logical thinking and abstract thinking abilities.

Teacher: Dr. Shu Feng **Phone:** 832-660-1759 **Email:** shu.feng@houstonhuaxia.org



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Huaxia Gifted and Talented Prep Level –III

Teacher/教师: Dr. Shu Feng

Register (注册): www.Houstonhuaxia.org **Phone (电话):** 281-798-3016

Aims: To help students build up cognitive ability, critical thinking, logical thinking and abstract thinking abilities such as classifying and categorizing, recognizing patterns and sequencing, reasoning with shapes and figures, deductive and inductive reasoning, mathematical reasoning and problem solving. By achieving these abilities, students will not only get well prepared for Gifted and Talented (GT) screening tests in your district, but also build up a solid foundation for academic excellence and success in any assessments.

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Students:

1. 4th -5th Graders (10-11 year old) who plan to take the GT screening tests for admission into the Gifted and Talented programs or highly-selective public school in Great Houston area.
2. All 4th - 5th Graders in both Public Schools and Private schools (including those that have already admitted to GT programs) who want to learn and build up strong cognitive ability, critical thinking, logical thinking and abstract thinking abilities.



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HuaXia Math Enrichment

1st Grade

Instructor: 冯树 博士

Students	1st Grade
Pre-requisites	Kindergarten Math
Prepare for	Huaxia Math Enrichment Grade 2

Huaxia Math Enrichment Grade 1 is designed to teach students mathematics on many fronts, including numbers and number sense, computation (addition, subtraction, multiplication and division), fractions, patterns, geometry shapes, money, measurement, time and simple graphs. Certain GT related content will be introduced to inspire student's critical thinking. This course will help students to move away from counting objects to doing more mental math, understand math concepts, master basic operations, and develop a positive attitude towards math.

Description

Recognize, describe and compare numbers.

Develop addition and subtraction concepts and strategies.

Understand place value.

Add one and two-digit numbers in columns without and with regrouping.

Subtract one and two-digit numbers in columns without and with regrouping.

Solve addition and subtraction word problems.

Recognize number patterns.

Develop multiplication and division concepts.

Measure length weigh with non-standard units and compare objects.

Identify money and solve simple addition and subtraction problems involving money.

Recognize time.

Identify and compare plane and solid shapes.

Describe fractional parts.

Organize and represent data.

HuaXia Math Enrichment

2nd Grade

Instructor: 冯树 博士

Students	2 nd Grade
Pre-requisites	1 st Math
Prepare for	Huaxia Math Enrichment Grade3

Description:

Huaxia Math Enrichment Grade 2 is designed to teach students mathematics on many different areas, including numbers and number sense, arithmetic operations (addition, subtraction, multiplication and division), fractions, geometry (two-dimensional and three-dimensional shapes), measurement (length, weight, perimeter, area and capacity), time, and data presentations. Certain GT related content will be involved to inspire student's critical thinking. This course will help students to not only develop a positive attitude towards mathematics, but also build up a solid math foundation.

- Identify place value and compare numbers.
- Round numbers and define odd and even numbers.
- Add two- and multi- digit numbers without and with regrouping.
- Subtract two- and multi- digit numbers without and with regrouping.
- Apply addition and subtraction concepts and strategies to solve word problems.
- Identify and compare fractions.
- Develop multiplication and division concepts and strategies.
- Apply multiplication and division concepts and strategies to solve word problems.
- Identify patterns
- Tell time and identify relationships of time.
- Determine the value of money and solve word problems involving money.
- Understand Geometry and Spatial reasoning.
- Measure length, perimeter, area, weight, and capacity.
- Organize and use data with graphs.

2021 夏季 华夏数学一二年级课程

授课老师:

孔红 老师

招收学生:

升一或二年级的学生

- 给您的孩子一个聪明的开始
 - “视觉思维的数学”
 - 用“实物”引入基本的数学概念
发展孩子的数学分析、解决问题的能力
 - 用“数字圈列”奠定心算数学的基础
 - 用“条形表”解决复杂的数学应用问题

2021年8月23日--2021年12月17日 10周（华夏总校课后班）

时间: 周五 一年级数学 下午5:00 - 6:00

周五 二年级数学 下午4:00 - 5:00

2021 Summer Huaxia Math Class - Elementary 1st or 2nd Grade 6/14/2021 – 8/21/2021 (10 weeks)

Teacher: Ms. Kong Hong

Target Students: Rising to 1st or 2nd Grader

Schedule: Monday & Wednesday 1st Grade Class 11:30AM - 12:30PM

Tuesday & Thursday 2nd Grade Class 11:30AM - 12:30PM

Give Your Child A Smart Start - “Visual Thinking Math”

- Introduce basic mathematical concepts with “Physical Objects” and develop children’s mathematical analysis and problem-solving skills
- Build a solid foundation for mental math with “Number Bonds”
- Solve complex word problems with the “Bar Modeling”

Hua Xia Math 1st Grade
华夏数学 1 年级

Instructor: Ms. Kong
授课老师: 孔红 老师

Target Students: Rising to 1st Grader
招收学生: 准备升入一年级的学生

Required Prerequisites:

Understand the number are symbols
that tell you how many; Count to 100;
Solve addition facts through 10;
Compare more, less, and same

课前知识预备:

有数字、加减运算的概念; 会数数
1-100; 比较多少、大小、相同、不
同; 分类; 10以内的加法运算

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.

1st Grade Math Course Purpose:

This course aims to preview 1st Grade Math concepts or difficult skills in Grade 1.

Course Syllabus:

Comparing Numbers; Order of Numbers; Number Bonds;
Addition and Subtraction within 100; Multiplication and Division
with 40; Common Shapes; Comparing and Measuring Length /
Weight; Picture Graphs; Telling Time; Making Halves and
Quarters; Money – Bills and Coins



Hua Xia Math 2nd Grade
华夏数学 总校 2 年级

Instructor: Ms. Kong
授课老师: 孔红 老师

Target Students: Rising to 2nd Grader
招收学生: 已完成一年级数学的学生

Required Prerequisites:

Add within 100; Addition and subtraction as inverse operation;
Tell time to hour and half hour;
understand basic fractions.

课前知识预备:

100以内的加法; 加、减法是逆向的运算; 读整点、半点的时间;
基本的分数概念; 量重量、长度

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2nd Grade Math Course Purpose:

This course aims to preview 2nd Grade Math concepts or difficult skills in Grade 2.

Course Syllabus:

Addition and Subtraction within 1,000; Addition and Subtraction with Renaming; Multiplication Table by 2,3,4,5,10; Addition and Subtraction / Multiplication and Division as inverse operation; Measuring Length in Meters, Centimeters, Yards Feet and Inches; Measuring Weight in Kilograms, Grams, Pounds, Ounces; Capacity - Gallons, Quarts, Pints and Cups; Time Intervals; Picture Graphs; Flat and Curved Faces Shapes; Square Units



2021秋季华夏数学三、四年级课程

授课老师:

孔红 老师

招收学生: 已完成数学二或
三年级的同学

- 用“特定的学习任务”引入基本的数学概念, 培养孩子整合、自测能力
- 用“具体→图形→抽象”方法引导孩子数学思考、分析能力。
- 用“条形表”快速有效地解决复杂的数学应用问题。

2021年8月21日--2020年12月19日 (华夏总校) 16周 网课

时间: 周日 3年级11:00AM-12:00PM; 4年级12: 00PM-01: 00PM

2020 FALL HUAXIA MATH CLASS (ELEMENTARY 3RD, 4TH GRADE)

TEACHER: MS. KONG HONG

TARGET STUDENTS: 3RD, 4TH GRADE ELEMENTARY OR YOUNGER

SCHEDULE: SUNDAY CLASS (8/21/2020 – 12/19/2020) (16WEEKS)

SUNDAY: 3RD GRADE CLASS 11:00AM-12:00PM (VIRTUAL CLASS)

4TH GRADE CLASS 12:00PM-01:00PM (VIRTUAL CLASS)

- USE “SPECIFIC LEARNING TASKS” TO INTRODUCE BASIC MATHEMATICAL CONCEPTS AND CULTIVATE STUDENTS’ ABILITY TO LEARN ASSESSMENT AND CONSOLIDATION.
- USE “CONCRETE→PICTORIAL→ABSTRACT APPROACH” TO GUIDE AND DEVELOP CHILDREN’S LOGICAL AND CRITICAL THINKING.
- USE “MODELING METHOD” TO VISUALIZE AND SOLVE MATHEMATIC PROBLEMS QUICKLY AND EFFICIENTLY.

Hua Xia Math

3rd Grade

Instructor: Ms. Kong
授课老师: 孔红 老师

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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

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。



Hua Xia Math 2nd Grade
华夏数学 总校 2 年级

Instructor: Ms. Kong
授课老师: 孔红 老师

Target Students: Rising to 2nd Grader
招收学生: 已完成一年级数学的学生

Required Prerequisites:

Add within 100; Addition and subtraction as inverse operation; Tell time to hour and half hour; understand basic fractions.

课前知识预备:

100以内的加法; 加、减法是逆向的运算; 读整点、半点的时间; 基本的分数概念; 量重量、长度

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2nd Grade Math Course Purpose:

This course aims to preview 2nd Grade Math concepts or difficult skills in Grade 2.

Course Syllabus:

Addition and Subtraction within 1,000; Addition and Subtraction with Renaming; Multiplication Table by 2,3,4,5,10; Addition and Subtraction / Multiplication and Division as inverse operation; Measuring Length in Meters, Centimeters, Yards Feet and Inches; Measuring Weight in Kilograms, Grams, Pounds, Ounces; Capacity - Gallons, Quarts, Pints and Cups; Time Intervals; Picture Graphs; Flat and Curved Faces Shapes; Square Units



HuaXia Math Enrichment

5th Grade

Instructor: 唐军平 博士

Target Students:
5th to 6th grade

Required Prerequisites	Have knowledge of arithmetic operations (addition, subtraction, multiplication, and division) of natural and whole numbers, and some basic knowledge of fractions.
Course Descriptions / Learning Objectives	This course is designed to improve and enhance students' understanding of signed numbers and fractions through systematic and complete study of relevant materials.

Course Syllabus

The following concepts and skills will be studied in this course:

1. Integers and number lines:
comparison of integers; addition, subtraction of integers;
multiplication and division of integers and sign rules.
2. Fractions: equivalent fraction, the simplest form; comparison of fractions; addition of fractions; subtraction of fractions;
multiplication of fractions; division of fractions.
3. Concept of complex fractions and their operations.
4. Mixed numbers and concept of improper fractions; operations of mixed numbers

华夏数学——唐军平老师课程介绍

课程名称	心算与速算	华夏数学 5 年级	华夏数学 6 年级	代数先修
	Mental Math & Speed Math	HuaXia Math Enrichment 5th Gr.	HuaXia Math Enrichment 6th Gr.	Pre-algebra
适合的学生	4,5 年级	5,6 年级	6,7 年级	7 年级
基础知识	熟记乘法口诀，能够按照标准步骤完成加减乘除	清楚自然数及整数的概念，以及加减乘除	5 年级数学	6 年级数学
课程内容	各种运算的性质，规律，能够熟练的用心算进行加减乘除运算	学习正负数，分数，混合数的概念，以及这些数的加减乘除运算	学习小数，包括循环小数的加减乘除运算，以及百分数，复杂分数概念，运算以及应用题。	介绍代数运算（乘方，开方，对数）以及无理数，实数，虚数，复数的概念

这 4 门课为学生理解各种数的概念及其基本运算打下坚实的基础，为后续的学习做好准备

HuaXia Math Enrichment

6th Grade

Instructor: 唐军平 博士

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

Target Students:
6th grade – 7th grade

Required Prerequisites

Have knowledge of concept and operations (addition, subtraction, multiplication, and division) of fractions. Have taken the 5th grade math.

介绍百分数，以及与分数，小数的关系以及互相转换。详细讲解**rate, ratio, proportion**的区别与联系，使得学生对于有理数与无理数有清晰的理解。特别侧重在有关文字题的分析与解题技巧，进而为学习实数的概念，以及代数预修 (**Pre-algebra**) 打下牢固的基础。

Contents

Percents

- 1) Concept of percents
 - 2) Converting fraction to percents
 - 3) Converting decimals to percents
 - 4) Converting percents to fractions or decimals
 - 5) Operations of percents
- Word problems

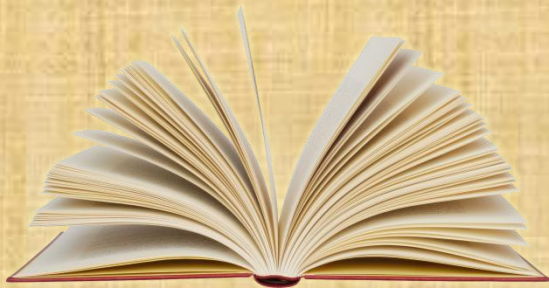
Ratio, Rate, and Proportion

- 1) Concept of ratio
- 2) Concept of rate
- 3) Concept of proportion
- 4) Properties of proportion

6th Grade Math Credit By Exam

FOR FIFTH GRADERS

MS.YIDONG WU



LEVEL UP

Following CBE study guide, this course is designed for current 5th graders who are willing and academically prepared to accept the challenge of accelerating 6th grade math.

The course covers the following objectives.

Objective 1: Number Operations

Objective 2: Fraction and Decimal Operations

Objective 3: Ratios, Rates and Percentages

Objective 4: Integer Operations

Objective 5: Financial Literacy

Objective 6: Expressions, Equations, and Inequalities

Objective 7: Multiple Representations

Objective 8: Two-Dimensional Figures and Measurement

Objective 9: Data and Statistics