

Pre-Algebra (CBE)

(数学跳级课程)

Target Students

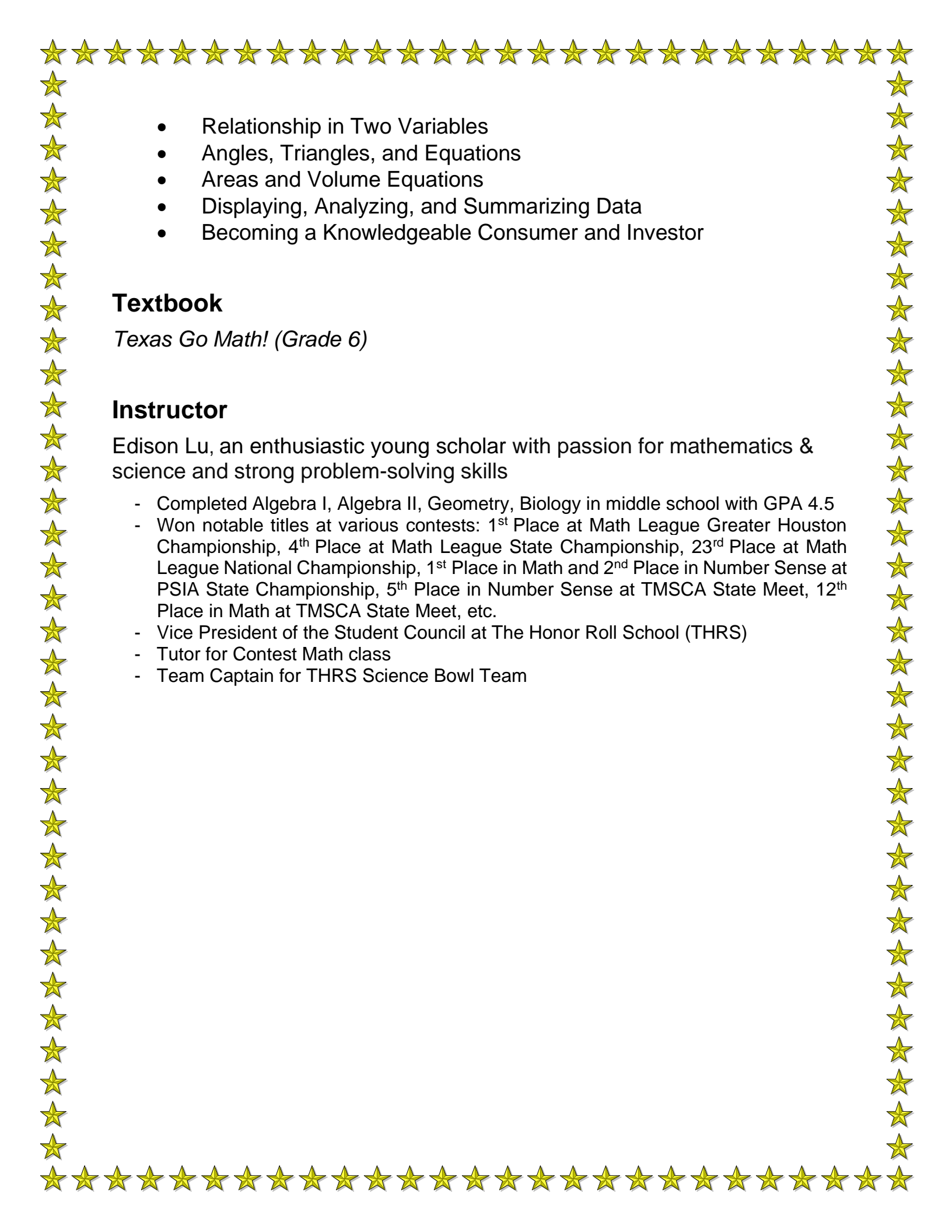
4th & 5th graders that want to pass CBE test and take AMC8 national contest

Objectives

This course is an introduction to basic algebra concepts and operations. Students will explore algebra operations with integers, fractions, decimals, exponents, square roots, ratios, proportions, and percents. They will study variables and algebraic expressions, solving linear equations and inequalities, graphing linear functions, finding areas and volumes, and so on. This course helps students develop logical thinking, problem-solving ability, and good learning strategies & skills. It serves as not only a necessary course for the students that want to pass CBE (credit by examination) test but also a good basic course for those that desire to take AMC8 national contest.

Course Content (subject to adjustment based on students' needs):

- Integers
- Rational Numbers
- Multiplying and Dividing Fractions
- Multiplying and Dividing Decimals
- Adding and Subtracting Integers
- Multiplying and Dividing Integers
- Representing Ratios and Rates
- Applying Ratios and Rates
- Percents
- Generating Equivalent Numerical Expressions
- Generating Equivalent Algebraic Expressions
- Equations and Relationships
- Inequalities and Relationships

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- Relationship in Two Variables
 - Angles, Triangles, and Equations
 - Areas and Volume Equations
 - Displaying, Analyzing, and Summarizing Data
 - Becoming a Knowledgeable Consumer and Investor

Textbook

Texas Go Math! (Grade 6)

Instructor

Edison Lu, an enthusiastic young scholar with passion for mathematics & science and strong problem-solving skills

- Completed Algebra I, Algebra II, Geometry, Biology in middle school with GPA 4.5
- Won notable titles at various contests: 1st Place at Math League Greater Houston Championship, 4th Place at Math League State Championship, 23rd Place at Math League National Championship, 1st Place in Math and 2nd Place in Number Sense at PSIA State Championship, 5th Place in Number Sense at TMSCA State Meet, 12th Place in Math at TMSCA State Meet, etc.
- Vice President of the Student Council at The Honor Roll School (THRS)
- Tutor for Contest Math class
- Team Captain for THRS Science Bowl Team