MA Math Courses Fall 2022

Pre-Algebra, Algebra, Geometry, Algebra 2, Statistics

Course Structures

MA math courses will balance the hybrid model (utilizing parent and teacher) while working towards increasingly autonomous learning at the upper level courses.

Pre-Algebra will consist mostly of direct instruction, with 2 application projects (one per semester) and 2 assessments. The course will follow a teacher-made outline but will be correlated to the Teaching Textbooks Pre-Algebra book. This will give parents access to instructional content that coincides with what is being taught in class. The homework, however, will be given on Edia.app to allow instructor customization and incorporation into Google Classroom.

Algebra, Geometry, and Algebra 2 will consist of Inquiry labs (unit opener), Lecture, Application activities (putting skills to work), and 4 assessments (one each quarter). These Courses will also use Edia.app and Google Classroom for weekly assignments, but more of our in-class time will be spent doing student-focused labs and problem solving activities.

Geometry, in particular, will be oriented toward guided discovery and problem solving, with a focus on acquiring new principles through rational reasoning. The skills of Geometry are much easier to master if based in a logical foundation.

Statistics will be taught using the Advanced Placement curriculum, and will be conducted as a seminar course. The students will be responsible for their pacing and learning with the instructor acting as a facilitator, assistant and assessor. If a student desires to take the AP Stats test, they'll need to register through a local school that's administering the test. Assistance with this process will be available upon request.

https://apstudents.collegeboard.org/faqs/im-homeschooled-how-can-i-take-ap-exam
https://apcourseaudit.inflexion.org/ledger/search.php

Pre-Algebra

Organizational Platform: Google Classroom
Optional Course Text: Teaching Textbooks Pre-Algebra
Weekly Assignment Platform: Edia.app

Algebra

Organizational Platform: Google Classroom
Optional Course Text: Algebra (Larson)
Weekly Assignment Platform: Edia.app

Geometry

Organizational Platform: Google Classroom
Optional Course Text: Discovering Geometry
Recommended Reading: Euclid's Elements
Weekly Assignment Platform: Edia.app

Algebra 2

Organizational Platform: Google Classroom
Optional Course Text: Intermediate Algebra (Larson)
Weekly Assignment Platform: Edia.app. KhanAcademy.org

Statistics

Organizational Platform: Google Classroom
Required Course Text: Stats: Modeling the World
Weekly Assignment Platform: AP Classroom