

Heights Tutorial Class Description

Course Title: Geometry

Teacher: Jenna Boyd

Grade Range: 9th+

Day: Thursday

Time: 8:30-9:55

Minimum of 6 students required to start

Credit level (high school): Full Credit 1.0

Costs

Tuition: \$475

Fee: \$50

Course Description:

Have you ever wondered why a soccer ball is made of hexagons and pentagons, or how you could measure the height of a skyscraper without ever leaving the ground? In this class, we stop just looking at shapes and start exploring the structure of the world around us. This isn't your typical "sit-and-stare" math class. We use geometry to build, solve, and create through activities like:

- **Geometry Detectives:** Go on a "shape scavenger hunt" around campus to find hidden angles.
- **3D Engineering:** Use marshmallows, toothpicks, and LEGO sets to build sturdy towers.
- **Math Meets Art:** Learn about the ancient Japanese art of origami to see how paper folding can solve complex math.
- **Real-World Skills:** Learn how athletes use angles to score goals, how photographers use the "rule of thirds," and how you can even calculate the height of a tree just by measuring its shadow.
- **Games & Missions:** Participate in "Geometry Jeopardy," escape room challenges, and more.

By the end of this course, you won't just see a triangle—you'll see the **blueprint for everything**.

The curriculum used will be Geometry Curriculum by All Things Algebra on Teacher Pay Teachers. This course will cover all that is necessary in the Mississippi Scope and Sequence for high school Geometry. <https://www.teacherspayteachers.com/Product/Geometry-Curriculum-All-Things-Algebra-4633792>

Prerequisites:

Algebra 1

Textbooks Required:

Curriculum will be provided with the class fee. The student will receive all necessary handouts and assignments to place in their binders.

Supply List:

Graphing calculator TI-83 or TI-84

Notebook paper

Pencils

Three ring binder 3 inches

Dividers

Colored pencils

Fine dry erase markers and eraser