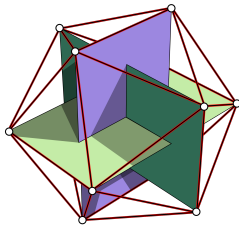


Geometry

Sophomore Math - SY 2016-17

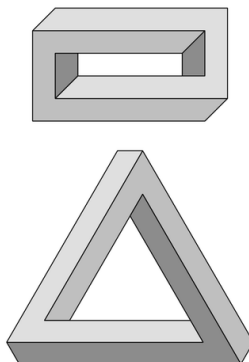
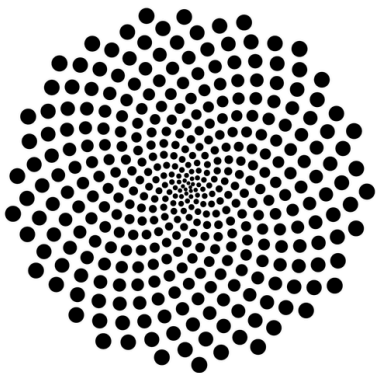


Course description

Geometry is the study of dimensional space (literally: Earth measurement). This course will challenge your critical thinking, collaboration, and innovation while developing your mathematician skills. Content will be experienced largely through mini-PBLs and Problem-Based Learning that will challenge students to synthesize their knowledge.

Geometry Learning Targets (May not be covered in this order)

- LT1 - Definitions: *I can use definitions precisely and accurately.*
- LT2 - Transformations: *I can perform generic transformations.*
- LT3 - Isometries: *I can construct and use properties of isometries.*
- LT4 - Triangle Congruence: *I can apply the concept of congruence to triangles.*
- LT5 - Lines & Angles: *I can use properties of lines & angles to solve problems.*
- LT6 - Triangles: *I can use properties of triangles to solve problems.*
- LT7 - Quadrilaterals: *I can use properties of quadrilaterals to solve problems.*
- LT8 - Constructions: *I can make formal geometric constructions.*
- LT9 - Dilations: *I can construct and use properties of dilations.*
- LT10 - Similarity: *I can use similarity to solve problems.*
- LT11 - Trigonometry: *I can use trigonometric ratios to solve problems.*
- LT12 - Circles: *I can use properties of circles to solve problems.*
- LT13 - The Third Dimension: *I can expand geometric concepts to three dimensions.*
- LT14 - Modeling: *I can model the physical world using geometry.*



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Course calendar

QTR 1

- LT1 - Definitions
- LT5 - Lines & Angles
- LT2 - Transformations
- LT3 - Isometries
- LT8 - Constructions

QTR 2

- LT6 - Triangles
- LT4 - Triangle Congruence
- LT7 - Quadrilaterals
- LT9 - Dilations

QTR 3

- LT10 - Similarity
- LT11 - Trigonometry
- LT12 - Circles
- LT13 - The Third Dimension

QTR 4

- LT14 - Modeling

****Calendar shows 1st appearance of LTs, not necessarily when they will be assessed.***

****Schedule is subject to change at teacher discretion.***

Grading Scale

Advanced (AD) = 100 A
Proficient (PR) = 85 B
Basic (BA) = 70 D
Below Basic (BB) = 50 F
Work Not Done or Missing = 0 F

Notebook Grade

Students will be expected to keep a lab notebook. Regular notebook checks will be included in the grade book as a Workplace Standard, using the rubric provided in class.

Extra Notes: *Intervention Charts will be followed for behavior, and bullying/harassment issues.*