

# Nathan Hale High School

## Geometry

### Course Information

Class Location: Hale 208

Tutoring Available:

2<sup>nd</sup> Hour, Advisory, Saturday School  
(8 AM - Noon) or by arrangement

### Teacher Information

Name: Mr. Gibson

Main Office Phone: (918) 925-1200

Cell Phone: (360) 296-6630 Texting is fine.

School E-Mail: [gibsoda@tulsaschools.org](mailto:gibsoda@tulsaschools.org)

gmail: dannyjgib@gmail.com

### Course Description:

Geometry is the study of shapes. In High School Geometry, we formalize ideas about shapes that were taught in middle school (angles) and earlier (identifying shapes). Specifically, we will apply algebraic ideas (equations, variables) and the properties of shapes to solve problems.

Like many great minds before us, we will use geometry to think logically. We will learn to deduct conclusions and defend their argument with from first principles and given facts.

### Long-Term Outline of Course

Unit/ Topic	Unit Description	Time Frame (approximate)
Unit 0: Algebra Review	Graphing lines, solving equations	2 Days per class
Unit 1: Logic and Patterns	Pattern rules, Conditional reasoning	6 days per class
Unit 2: Angles and Lines	Line-Angle Theorems and Relationships	8 days per class
Unit 3: Triangle Congruence	Parts of a Triangle, Congruency Theorems	7 days per class
Unit 4: Similarity	Scaling triangles, length, perimeter, area	10 days per class
Unit 5: Right Triangles and Trigonometry	Pythagorean Theorem, Trig Ratios	9 days per class
Unit 6: Quadrilaterals & Polygons	Classification, Properties, area	8 days per class
Unit 7: Circles	Similarity, Relationships, Inscribed Shapes	8 days per class
Unit 8: Three Dimensional Figures	Cross-Sections, Surface Area, Volume	5 days per class
Unit 9: Transformations	Translation, Reflection, Rotation, Dilation, Symmetry	7 days per class

### Class Vision and Goals -- 3 C's

- **Career**
  - Passing the Geometry End of Instruction exam (EOI) fulfills a state requirement for graduation.
  - Therefore, every student will pass the EOI and move towards the career of their choice.
- **College**
  - College is intellectual, challenging and financially rewarding.
  - Every student should have an opportunity at college.
  - Therefore, we will learn how to apply to college, and work ACT questions for rigorous prep.
- **Culture**
  - Education isn't helpful if we can't apply it to our community.
  - Improving our community starts with each of us
  - Everyday we make choices that can make us better.
  - Therefore, we will focus on making good choices and acting with discipline in Geometry.

## Grading System

- 60% Daily Exit Tickets
- 20% Unit Test and Bi-Weekly Quizzes
- 10% Homework
- 5% Participation
- 5% 3C work
- Grades are standards based.
- If you know the material and can demonstrate that, you will pass the class.
- You will not pass geometry without demonstrating your knowledge.
- If you haven't demonstrated mastery of a standard, your geometry teacher will provide you with questions to retry that standard.

## Classroom Expectations

Classroom expectations **short** for all our sakes. Enforcing expectations is at Teacher/Admin discretion.

- **Respect Classroom and Each Other**
  - *Positive Consequence Example:* Affirming other students, keeping clean work
  - *Negative Consequence Example:* Cursing, vandalism
- **Be Prepared to Learn**
  - *Positive Consequence Example:* Coming to school with pencil and finished homework
  - *Negative Consequence Example:* Interrupting class to sharpen pencil
- **100% Participation of 100% Class of 100% Time**
  - *Positive Consequence Example:* Speaking when called on, working in teams
  - *Negative Consequence Example:* Tardiness, Asleep in class
- **Follow Directions the First Time**
- **Electronic Distractions are Away in Bags**
- **Keep little problems little**

## Class Requirements

For success in Geometry, please bring the following to class:

- 3 sharpened pencils.
  - Pencils maybe be sharpened during passing period.
  - Work must be done in pencil for full credit.
- College ruled paper.
  - 150 pieces or more, please.
  - Student work and notes will be kept in binders.
- Binder dividers

## Please check and sign below

\_\_\_\_\_ *I have read the information and I fully understand what I'm expected to do in class.*

Student Signature: \_\_\_\_\_

Parent / Guardian Signature: \_\_\_\_\_ Phone: \_\_\_\_\_