Geometry

2023 - 2024

# Instructor Information

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| Teacher | Method of Contact |  |
| **Leslie Jackson** | Leslie.jackson@houstonisd.org or MS Teams |  |

## Course Description

In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I to Geometry through the coordinate and transformational geometry strand. In the logical arguments and constructions strand, students are expected to create formal constructions using a straight edge and compass. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist.

In proof and congruence, students will use deductive reasoning to justify, prove and apply theorems about geometric figures. Throughout the standards, the term "prove" means a formal proof to be shown in a paragraph, a flow chart, or two-column formats. Proportionality is the unifying component of the similarity, proof, and trigonometry strand. Students will use their proportional reasoning skills to prove and apply theorems and solve problems in this strand. The two- and three-dimensional figure strand focuses on the application of formulas in multi-step situations since students have developed background knowledge in two- and three-dimensional figures. Using patterns to identify geometric properties, students will apply theorems about circles to determine relationships between special segments and angles in circles. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education.

## Attendance

Students are expected to be in class no later than 5 minutes after the bell rings. Students are expected to sign and date the Tardy Log when they come in after the tardy bell rings. Three tardies in a week will result in a phone call home. *Any student who is more than 30 minutes late to class is marked ABSENT.*

## Grading\*

At least two grade assignments per week will be posted in PowerSchool. Grades will be taken during each grading cycle of the 2023-2024 school year. All cycle grades will be used in the calculation of the final average for any class. Final exams will be administered for all high school credit courses.

Courses taken as Dual Credit or Dual Enrollment will be subject to the grading policies of the Institution of Higher Education (IHE) issuing the college credit.

\*Subject to change at the discretion of the district.

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| **Grade Category** | **Percentage** |
| Formative (Daily Grades, Quizzes, Homework) | 60% |
| Summative (Projects, Tests, Essays) | 40% |
| **Total** | **100%** |

## Class Norms

* Ready: When the tardy bell rings, prepare to have class.
* Respectful: Follow teacher directions THE FIRST TIME. Respect themselves, other people and school equipment at all times.
* Responsible: Have necessary supplies. Turn in completed assignments on time.
* Resourceful: Have laptop provided by school. Trade in cell phone\* for calculator.

***\*Cell phone, headphones and smart watch use is prohibited in this class. Phones will not be allowed to complete digital work. I have a station designed for students to turn in their cell phones to receive a calculator. Students can charge their phones during class, but ONLY at the charging station; not on their computer and not on the random outlets throughout the classroom. I give students 3 chances to put the phone in the station, after the 3rd time, the phone will be confiscated, and an adult must retrieve the phone from the front office for a fee.***

***DISCLAIMER: I DO NOT WANT YOUR CHILD’S PHONE, I WANT YOUR CHILD’S ATTENTION. TO REDUCE DISTRACTIONS, PHONES ARE COLLECTED TO ENSURE MAXIMUM LEARNING POTENTIAL.***

## Learning Expectations

* Check Canvas daily for assignments and due dates.
* Complete and submit assignments on time.
* Know how to navigate access and navigate online resources.
* Complete independent reading goals and assignments.

# Additional Information and Resources

## Resources(Calculator)

* [www.desmos.com](http://www.desmos.com)
* Wabbitemu

**Student:** I have read the syllabus for the **Geometry** course for the 2023-2024 school year. I understand what is expected of me while enrolled in this class.

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Parent Signature Student Signature

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Date Date