

Textbook: Geometry – Holt McDougal/ iPad

Price to replace textbook: \$65.00 iPad: \$638.00

Course Scope:

This one-year course provides students with a rigorous study of Euclidean geometry including advanced topics. It incorporates problem solving, reasoning, modeling, and effective communication in the study of transformational geometry, trigonometry, measurement, and probability. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The use of mathematical tools and technology, including calculators and computer software, is an integral part of this course. This course fulfills one of the mathematics credits required for high school graduation.

I. Course Goals:

1. To develop the Standards for Mathematical Practice.
2. To experiment with transformations in the plane, understand congruence in terms of rigid motions; prove geometric theorems, and make geometric constructions.
3. To understand similarity in terms of similarity transformations, prove theorems involving similarity, define trigonometric ratios and solve problems involving right triangles, and apply trigonometry to general triangles.]
4. To understand and apply theorems about circles; and find arc lengths and areas of sectors of circles.
5. To translate between the geometric description and the equation for a conic section; and use coordinates to prove simple geometric theorems algebraically.
6. To explain volume formulas and use them to solve problems; and visualize relationships between two-dimensional and three-dimensional objects.
7. To apply geometric concepts in modeling situations.
8. To understand independence and conditional probability and use them to interpret data; and use the rules of probability to compute probabilities of compound events in a uniform probability model.
9. To use probability to evaluate outcomes of decisions.

II. Course content and time schedule (sequential)

We will cover all content listed in the NVACS through use of the iPad App, textbook and online supplemental materials.

III. Course activities

- a. Communicate and evaluate mathematical thinking based on the use of definitions, properties, rules, and symbols.
- b. Develop and apply strategies to solve a variety of problems.
- c. Translate information into mathematical language and symbols.
- d. Apply technology as a tool in problem solving situations.
- e. Identify, explain, and apply mathematics in everyday life.

IV. Curricular Programs: This year we will continue with the one-to-one iPad for all students in the Geometry Honors classes. This program loans an iPad to your student for the entire school year. The iPad is an incredible student resource that will allow your student to explore the course content in ways a "regular" textbook would not allow. Along with the textbook, the students will have access to several other apps to assist them in Geometry. Students are responsible for transporting the iPads between home and school, and are required to bring them to class daily fully charged.

V. Evaluation

a. Participation/Homework/Classwork-20%

b. Assessments/Tests/quizzes/ -80%

c. Semester exams will be worth 20% of the SEMESTER grade. Semester exams will not be administered early. Students who are absent may make-up their exams on the district approved make-up day.

d. Explanation of student grades

- | | | |
|------|---|--------------|
| i. | A | 100 – 90% |
| ii. | B | 89 – 80% |
| iii. | C | 79 – 70% |
| iv. | D | 69 – 60% |
| v. | F | 59 and below |

e. How and when students will be advised of their grades

- Parents and students are urged to check the Infinite Campus Portal for grades regularly.
- Quarterly progress reports
- Quarterly Report cards

f. Citizenship/behavior expectations

Citizenship is taken very seriously here at Leavitt Middle School. Teachers expect the very best from their students every day. Students are expected to bring supplies to class, pay attention, stay on task, talk when appropriate, be respectful to all teachers and students, avoid nuisance items, such as cell phones and toys, and not chew gum or eat in class. Students who cannot work within these expectations will have points deducted from their citizenship grades. Other actions which disrupt the learning environment of the classroom or other students will also be documented and points will be lost.

Below is the scale for citizenship

Lost Points will earn

- 0-2- Outstanding-O
- 3-5 –Satisfactory-S
- 6-8 -Needs Improvement-N
- 9 or more- Unsatisfactory-U

g. Late Work policy

Late work is accepted up to until one week prior to end of quarter after the due date for 70% of the original credit . No credit given after this date.

If a student does not complete any assignment (for reasons other than an absence), they will be assigned a make-up work detention the following school day from 3:30 to 4:25 EVEN if they turn the assignment in the next school day.

h. Test retake policy – **A student may only retake a test if 1) all assignments have been turned in 2) the student has asked for help, clarification, or exhibited evidence of further studying and a further mastery of the subject matter.**

At the discretion of the instructor retakes will either consist of students fixing mistakes on original test for 50% additional credit per mistake or a full test retake of a similar test. This will be announced after the original test has been taken by all students. Only one retake is allowed for each test over 10 points. Short lesson quizzes are exempt from being retaken. Test corrections or test retakes must be completed in one week (School days) after test is returned. Copies of tests will be available for students online. Semester exams are not eligible for retakes. Semester exams are not eligible for check out. Students will be provided a practice semester exam online.

VI. School-Wide Rules

- Follow directions quickly.
- Raise your hand for permission to speak.
- Raise your hand for permission to leave your seat
- Make SMART Choices: Kindness, Leadership, Courage, Invincible Grit, Creativity
- Work hard to do your best for your teachers and parents at all times.
- Keep your eyes on the target.

VII. TARDY POLICY – Progressive Steps

- a. 1st Tardy – Warning & Parent Phone Contact
- b. 2nd Tardy – Warning & Parent Phone Contact
- c. 3rd Tardy – Non-TRS RPC
- d. 4th Tardy – After School Detention
- e. 5th Tardy – In-House Suspension (IHS)
- f. 6th Tardy – Required Parent Conference – RPC/Tardy Contract
- g. 7th Tardy – IHS/parent and student meet with the principal

VII. BEHAVIOR- Progressive Discipline

- b. 1st Incident – Verbal warning
- c. 2nd Incident - Parent contact by teacher
- d. 3rd Incident – Written contact to parent
- e. 4th Incident – Counselor referral
- f. 5th Incident – Deans’ referral

VIII. Supplies needed for this course

- Notebook for notes (graph paper notebook recommended)
- 1 package of Graph paper
- Pencils for everyday
- Binder/folder for papers can be shared with other classes
- 1 package of “AAA” batteries for use in classroom calculators.
- 1 Compass
- 1 Protractor

IX. Utilizing technology to learn – At Leavitt, we want to encourage the daily use of technology in and out of the classroom to further enhance the educational experience. As such, Leavitt will be providing students with individual devices in all grades to utilize in class and at home. Students will also be provided with a Google email address to correspond with their teacher and classmates on projects, as well as to turn in assignments. Students may choose to utilize their own electronic tablets (iPads, Kindle Fire, Samsung, etc.) cell phones, laptops, and reading devices for educational purposes. Please be reminded that your student is responsible for the safety of their personal device and must utilize the district’s Wi-Fi to ensure their internet safety. All use of these devices will be for educational purposes and must be approved by the individual teacher.

X. Teacher’s hours of availability

Daily before and after school (8:30 am -3:41pm) please by appointment in case I have a meeting.