

Course Description:

- I. Course goals
 - a. To develop the Standards for Mathematical Practice [NVACS]
 - i. Make sense of problems and persevere in solving them.
 - ii. Reason abstractly and quantitatively.
 - iii. Construct viable arguments and critique the reasoning of others.
 - iv. Model with mathematics.
 - v. Use appropriate tools strategically.
 - vi. Attend to precision.
 - vii. Look for and make use of structure.
 - viii. Look for and express regularity in repeated reasoning
 - b. The Number System
 - i. Know that there are numbers that are not rational, and approximate them by rational numbers.
 - c. Expressions and Equations
 - i. Work with radicals and integer exponents.
 - ii. Understand the connections between proportional relationships, lines, and linear equations.
 - iii. Analyze and solve linear equations and pairs of simultaneous linear equations.
 - d. Functions
 - i. Define, evaluate, and compare functions.
 - ii. Use functions to model relationships between quantities.
 - e. Geometry
 - i. Understand congruence and similarity using physical models, transparencies, or geometry software.
 - ii. Understand and apply the Pythagorean Theorem.
 - iii. Solve real-world and mathematical problems involving volume of cylinders, cones and spheres
 - f. Statistics and Probability
 - i. Investigate patterns of association in bivariate data.
- II. Course content and time schedule (sequential)
 - a. Quarter 1
 - i. Writing expressions
 - ii. Solving Equations
 - iii. Rational and Irrational Numbers
 - iv. Powers and Roots
 - b. Quarter 2
 - i. Properties of Exponents
 - ii. Operations of Scientific Notation
 - iii. Exploring Slope and Slope-Intercept From
 - iv. Proportional Relationships
 - v. Introduction to Functions

- c. Quarter 3
 - i. Graphing Systems of Linear Equations
 - ii. Solving Systems of Linear Equations Algebraically
 - iii. Real Numbers
 - iv. Distance to Midpoint Formula
 - v. Applying the Pythagorean Theorem
 - vi. Converse of the Pythagorean Theorem
- d. Quarter 4
 - i. Surface Area
 - ii. Volume of Solids
 - iii. Scatter Plots and Association
 - iv. Data Analysis and Probability
 - v. Angle Relationships and Transformations

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



- a. ALEKS
 - i. **Assessment and LEarning in Knowledge Spaces** is a Web-based, artificially intelligent assessment and learning system. ALEKS uses adaptive questioning to quickly and accurately determine exactly what a student knows and doesn't know in a course.

V. Evaluation

- a. Criteria for arriving at students grades -
 - i. Participation/Homework/In-class assignments – 20%
 - ii. Test/Quizzes- 80%
- b. Semester exams will be worth 20% of the SEMESTER grade
 - i. Semester exams will not be administered early. Students who are absent may make-up their exams on the district approved make-up day.
- c. 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
- d. How and when students will be advised of their grades
 - i. Parents and students are urged to check the Infinite Campus Portal for grades regularly.
 - ii. Each week grades will be posted in the room according to student identification number

- iii. Quarterly progress reports
 - iv. Quarterly report cards
- e. Citizenship/behavior expectations
- i. 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
 - Deducted Points will earn
 - 0-2 – Outstanding - O
 - 3-5 – Satisfactory – S
 - 6-8 - Needs Improvement – N
 - 9 or more – Unsatisfactory – U
- f. Late Work policy – is accepted up to 3 days after the due date for 100% credit, then 70% after 3 days up until two weeks prior to end of quarter. 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.
- g. 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 fixing their mistakes with an explanation 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 11 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. Second semester the privilege of retakes and test corrections will no longer be available. Semester exams are not eligible for retakes. Semester exams are not eligible to check out. Students will be provided practice semester exam online.

VI. School-Wide Rules

- a. Follow directions quickly.
- b. Raise your hand for permission to speak.
- c. Raise your hand for permission to leave your seat
- d. Make SMART Choices: Kindness, Leadership, Courage, Invincible Grit, Creativity
- e. Work hard to do your best for your teachers and parents at all times.
- f.  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

VIII. BEHAVIOR- Progressive Discipline

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

IX. Supplies needed for this course

- a. Pencils for everyday
- b. 3-subject notebook (college ruled)
- c. Highlighters
- d. Erasable whiteboard marker
- e. 1 Package of 4-AAA batteries for in class Graphing Calculator
- f. Kleenex

X. 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 Wifi to ensure their internet safety. All use of these devices will be for educational purposes and must be approved by the individual teacher.

XI. Teacher's hours of availability

- a. Daily before and after school (8:30 am -3:41pm.) by appointment.
- b. Email: mehlte@nv.ccsd.net Phone: (702) 799-4699 room 808