ASSESSMENT

Teachers use a variety of methods when assessing students. They may include:

- Portfolio Collection
- Observations
- Demonstrations
- Conferences
- Self-evaluations
- Peer evaluations
- Surveys
- Checklists
- Common District Assessment
- PSAT and SAT
- Writing rubric
- State Assessment: M-STEP

PARENT COMMUNICATION

Parents are encouraged to talk with their child's teacher at any time during the school year. Following is a list of ways that you may communicate with and/or review your child's progress.

- PowerSchool
- Teacher's web site/email/voice mail
- Parent-teacher conferences
- School Messenger
- District Facebook page

Ways You Can Help Your Child At Home

- ✓ Provide a study place
- ✓ Develop a system for organizing and maintaining a notebook
- ✓ Encourage your child to participate in class
- ✓ Talk about how you use math at work and home
- ✓ Involve children in tasks that require computing, measuring, estimating, building, following directions, problem solving and reasoning
- ✓ Make the above resources available to your home
- ✓ Supporting homework

District Mission Statement

In partnership with the community, we seek to instill in students high standards for academic excellence, integrity, leadership and responsible citizenship.

New Lothrop Area Public Schools

Student Learning Targets

High School - Math

Grade Level and Content Area Teachers developed a list of 5-10 Student Learning Targets (SLT'S) for DK-12th grade. This brochure is meant to help students and parents become familiar with each course and the intended outcomes upon completion.

Accordingly, Students will be able to...

Pre-Algebra

- Add, subtract, multiply, and divide rational numbers.
- Convert fractions to decimals and vice-versa.
- Describe place value and round numbers.
- Simplify expressions using the order of operations.
- Solve linear equations.
- Write Linear Equations.
- Graph Linear Equations.
- Solve systems of linear equations using graphing, substitution, and elimination methods.

Algebra I

- Interpret parts of expression terms ... 1) define term, factor, coefficient 2) interpret real-world meaning in terms of units 3) group parts of expressions differently.
- Add, subtract, and multiply polynomials.
- Identify variables and quantities represented by real-world problems and determine best model for a situation and Write an equation or inequality for the situation and Solve equation or inequality and Interpret solutions.
- Solve linear equalities/inequalities in one variable with letter coefficient.
- Define a system of equations and determine that a equations are equivalent when multiplying by a number and solve a system of equations using elimination.
- Apply transformations to a parent function.
- Recognize possible associations and trends in the data.

Geometry

- Create and justify geometric constructions.
- Prove geometric theorems.
- Use ratio and proportion to solve problems involving similarity.
- Define the trigonometric ratios.
- Use trigonometric ratios to find unknown sides and angles.
- Use volume formulas to find lengths by working backwards.
- Find the volume of composite solids to model real-world objects.
- Carry units through formulas.
- Prove coordinate theorems.
- Calculate Arc Length and Sector Area.
- Compute independent and conditional probabilities
- Compute compound events.

Algebra II (CP and General)

- Perform operations with complex numbers (add, subtract, multiply, and divide) and calculate powers of i.
- Perform operations on polynomials (add, subtract, multiply, divide, and composition).
- Solve equations (quadratic, polynomial, radical, logarithmic, exponential, and rational equations).
- Graph and transform equations (quadratic, polynomial, radical, logarithmic, exponential, and rational equations).
- Describe the features of a graph (domain, range, maximum/minimum, intercepts, increasing/decreasing, end behavior).
- Calculate the mean and standard deviation of a data set and estimate the percentage of the population within 1, 2, or 3 standard deviations of the mean.
- Write sequences and series using explicit and recursive rules.
- Label the unit circle and calculate the trigonometric ratio of an angle on the unit circle.

Advanced Math

- Work with the circular functions.
- Solve trigonometric equations.
- Graph trigonometric functions.
- Evaluate and explain the geometric definition of the derivative.

- Use the derivative to analyze various functions.
- Graph and solve logarithmic and exponential functions.
- Analyze limits analytically and graphically

AP Calculus

- Explain and use derivatives.
- Take derivatives of various functions.
- Analyze a function graphically using the derivative.
- Evaluate antiderivatives of various functions.
- Find areas and volumes using the definite integral.
- Use definite integrals as an accumulation function.
- Use approximation techniques to evaluate definite integrals.

Personal Finance

- Develop a plan for spending and saving. Develop a system for keeping and using financial records. Describe how to use different payment methods. Apply consumer skills to spending and saving decisions.
- Analyze the costs and benefits of various types of credit. Summarize a borrower's rights and responsibilities related to credit reports. Apply strategies to avoid or correct debt management problems. Summarize major consumer credit laws.
- Explore job and career options. Compare sources of personal income and compensation. Analyze factors that affect net income.
- Explain how investing may build wealth and help meet financial goals. Evaluate investment alternatives. Demonstrate how to buy and sell investments. Investigate how agencies protect investors and regulate financial markets and products.
- Identify common types of risks and basic risk management methods. Justify reasons to use property and liability insurance. Justify reasons to use health, disability, long-term care and life insurance.
- Recognize the responsibilities associated with personal financial decisions. Use reliable resources when making financial decisions. Summarize major consumer protection laws. Make criterion-based financial decisions by systematically considering alternatives and consequences. Apply communication strategies when discussing financial issues. Analyze the requirements of contractual obligations. Control personal information. Use a personal financial plan.