

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
- ✓ Benchmark Assessment
- ✓ PSAT
- ✓ 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
- ✓ Checking grades on PowerSchool
- ✓ 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



Junior High - Science

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.

Students in New Lothrop Jr. High School science classes will engage in eight practices of science and engineering identified in the Michigan Science Standards as essential for all students:

1. Asking questions (for science) and defining problems (for engineering).
2. Developing and using models.
3. Planning and carrying out investigations.
4. Analyzing and interpreting data.
5. Using mathematics and computational thinking.
6. Constructing explanations (for science) and designing solutions (for engineering).
7. Engaging in argument from evidence.
8. Obtaining, evaluating, and communicating information.

Students will be asked to generate a variety of questions based on observation and data and to manipulate variables in an investigation. They will develop and sharpen their skills in measurement and the use of tools and scientific equipment. They will collect and organize their own sets of data into charts and graphs, make sense of their findings, evaluate and analyze their own data as well as the data of others, and evaluate the strengths and weaknesses of their findings and the claims of others. Students will be asked to collaborate while conducting investigations and to generate new questions for further research.

Accordingly, Students will be able to...

7th Grade Science

- Develop models to describe the atomic composition of simple molecules
- Evaluate evidence to determine if a chemical reaction has occurred.
- Develop and use a model to describe how the total number of atoms does not change in a chemical reaction.
- Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.
- Explain based on evidence the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms.
- Describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release energy as this matter moves through an organism.
- Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth history.
- Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms.
- Explain distributions of Earth's mineral, energy, and groundwater resources based on the geoscience processes.
- Analyze and interpret data on natural hazards to forecast future catastrophic events

8th Grade Science

- Develop a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.
- Undertake a design project to construct, test, and modify a device that either releases or absorbs thermal energy.
- Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.
- Construct and interpret graphical displays to describe the relationships of kinetic energy to the mass of an object and to the speed of an object.
- Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample.
- Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave.
- Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.