

8th Grade Science Syllabus
North St. Paul – Maplewood – Oakdale School District 622
John Glenn Middle School

Full Year Course

Standards met: MN Academic Standards in Physical Science

Course Description:

Students will learn physical science concepts, apply critical thinking skills and use an inquiry approach to solving problems in the areas of physics and chemistry.

Curriculum:

Students will learn scientific inquiry and measurement, physical and chemical properties of matter, wave motion and energy, and motion, forces and energy.

Course Outline:

1. (Sept) Scientific Inquiry and Measurement:
 - a. Scientific method
 - b. Observations and Inferences
 - c. Accurate measurement of Mass, Volume and Length
2. (Oct-Nov-Dec) Physical and Chemical Properties of Matter:
 - a. Composition of matter
 - b. Chemical and physical changes
 - c. Atomic structure
 - d. Acids, bases and salts.
3. (Jan-Mar) Wave Motion and Energy:
 - a. Heat energy
 - b. Wave Motion and sound
 - c. The nature of light and color
4. (Apr-May) Motion, Forces and Energy:
 - a. Motion and its causes
 - b. Newton's Laws
 - c. Work, Power and Energy

Course Requirements:

Students need to fully participate in all class activities such as laboratory experiments, daily assignments, and end of unit assessments. Students need to bring required materials every day. Students need to demonstrate responsibility and safety in class activities. Teachers will inform students of policies regarding late work, extra credit and due dates.

Grading Procedures:

All assignments are given a letter grade based on the percentage of possible points earned by all the students. The grades for each percent are posted in each classroom.

Test And Other Resource Material:

Exploring Physical Science. Prentice Hall.

Contact Information:

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