

**WOODLAND
MIDDLE SCHOOL**

2009-2010

**CURRICULUM
PROFILE**

7th

**Scott Snyder
Principal
Middle School**

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Middle School**

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Superintendent of Schools**

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Assistant Superintendent
Curriculum, Instruction and Accountability**

The 7th grade student's day includes time for large group activities, small group activities, and individual self-directed activities that provide the children with truly integrated experiences.

The skills listed in each subject area provide a framework for classroom expectations. We recognize that children learn in different ways at different paces. Your child's teacher will be able to differentiate instruction on the basis of your child's interests within the subject, readiness for learning and learning style. Teachers use a variety of methods for assessing your child's learning.

If you have questions about what is taught in your child's classroom, please contact the teacher, the principal or the Department of Curriculum, Instruction and Accountability.

Subject Areas:

- **Language Arts**
- **Social Studies**
- **Mathematics**
- **Science**
- **Technology Lab 2000**
- **Physical Education**
- **Health**
- **Art**
- **Music**
- **Spanish**

**WOODLAND SCHOOL
DISTRICT 50
1105 N. HUNT CLUB ROAD
GURNEE, IL 60031**

Language Arts

Reading

- Clarify appropriate word meanings using various resource materials
- Analyze words and phrases in context
- Utilize various pre-reading strategies to increase comprehension: skimming, self-questioning, predicting
- Apply various reading strategies to analyze different genres
- Draw inferences and relate them to author's purpose
- Compare and contrast texts
- Determine cause and effect
- Explain onomatopoeia, foreshadowing, humor, and puns that affect meaning

Writing

- Incorporate appropriate capitalization and punctuation
- Demonstrate correct use of possessive nouns, comparative and superlative adverbs, irregular verbs and prepositions
- Understand connotation and denotation, metaphors, similes, formal and informal language, specialized technical words
- Compose well-organized and coherent writing through focused topics and effective note-taking
- Edit and proofread by eliminating run-on and fragment sentences
- Communicate descriptively using sensory words, transitional words and compare/contrast ideas
- Write effective persuasive, expository and narrative essays providing clear information

Listening/Speaking

- Speak effectively using appropriate language and new vocabulary
- Understand the importance of using appropriate styles of speaking for specific audiences and situations
- Create effective presentations for

Literature

- Understand how literary elements and techniques are used to convey meaning
- Formulate thematic, comparative, creative and critical responses to literature
- Understand literature accessing prior knowledge, using inferences and drawing conclusions
- Analyze fiction and non-fiction materials in thematic collections

Research

- Understand how to formulate questions, organize timelines, use resources and create a presentation using the research process
- Evaluate sources based on accuracy, reliability and up-to-date information
- Utilize information for research based on sorting, integrating and organizing outlines and numbered notes.
- Produce a bibliographical notated list supporting research

Social Studies

The units of study are:

Creating a New Nation
A New Republic
The Growing Nation
A Nation Divided and Rebuilt

Geography

- Explain how human activities have been affected by geographic factors
- Understand human interactions with the world using current events
- Trace settlement patterns and describe how they change over time
- Explain the role of geography in the colonists' victory in the Revolutionary War
- Explain the importance of the Mississippi River, canals, rivers, and mountains

Government

- Compare and contrast the three branches of federal government
- Identify components of major historical documents
- Explain the early forms of self government and its subsequent development
- Explain the purpose of the US Constitution and the system of checks and balances
- Analyze key US Supreme Court cases and the power of judicial review
- Evaluate famous debates, political cases, and people who influenced America

History

- Describe the roles of key historical individuals from 1587-1877
- Describe the causes of the Civil War and the development of the South
- Analyze the effects of the Northern blockade and the conditions of African Americans during the Civil War
- Analyze the forces that drove the establishment of colonies on the east coast

Economics

- Examine how producers and consumers are affected by their economic systems
- Define the differences in economic systems in the three colonial regions
- Explain the importance of shipping to the early American economy and its influence on domestic/foreign relations
- Describe the technological impacts in manufacturing and transportation
- Compare/contrast industrial economy of the North with the agricultural South

Social Systems

- Analyze the relationships between individuals, groups and institutions and how they contribute to the development of the culture in North and South America
- Explain the influence of religions on the early colonies
- Examine primary sources such as letters, treaties, or diaries to determine culture, living conditions and changes in history

Learning ... to find solutions

Mathematics

Number Sense and Computation

- Demonstrate knowledge and use of numbers and their many representations in a broad range of theoretical and practical settings.
- Investigate, represent, and solve problems using number facts, operations and their properties, algorithms, and relationships.
- Compute and estimate using mental mathematics, paper-and-pencil methods, calculators, and computers.
- Solve problems using comparison of quantities, ratios, proportions, and percents.

Measurement

- Measure and compare quantities using appropriate units, instruments, and methods.
- Estimate measurements and determine acceptable levels of accuracy.
- Select and use appropriate technology, instruments, and formulas to solve problems, interpret results, and communicate findings.

Algebraic Thinking

- Describe numerical relationships using variables and patterns.
- Interpret and describe numerical relationships using tables, graphs, and symbols.
- Solve problems using systems of numbers and their properties.
- Use algebraic concepts and procedures to represent and solve problems.

Geometry

- Demonstrate and apply geometric concepts involving points, lines, planes, and space. (Properties of single figures, coordinate geometry and constructions)
- Identify, describe, classify and compare relationships using points, lines, planes, and solids. (Connections between and among multiple geometric figures)
- Construct convincing arguments and proofs to solve problems. (Justifications of conjectures and conclusions)
- Use trigonometric ratios and circular functions to solve problems

Data and Probability

- Organize, describe and make predictions from existing data.
- Formulate questions, design data collection methods, gather and analyze data, and communicate findings. (Data Collection)
- Determine, describe and apply the probabilities of events. (Probability, including counting techniques)

Science

Science Fair

The main objective of the science fair is to foster scientific experimentation. The scientific method is reinforced throughout the school year, but the learner has the opportunity to develop a project of his/her interest. Research is the first step in finding a project idea that interests the learner. From this, a scientific experiment is set up, data is collected and analyzed, and conclusions drawn. The learner then presents the information by giving an oral, written and visual presentation to share the information he/she has gathered.

Forces and Motion

- Define friction
- List the types of friction and give examples of each
- Explain how friction can be harmful and helpful
- Define gravity and identify ways it affects movement in the universe
- Measure speed, velocity, acceleration, and force
- Define and explain terminal velocity, free fall and projectile motion
- State and apply Newton's Laws
- Explain the properties of fluids and pressure within fluids
- Measure work and power
- Identify the types of simple machines and explain how they affect efficiency
- State the forms of energy
- Compare and contrast potential and kinetic energy
- Know energy conversions and resources
- Demonstrate the law of conservation of energy

Cells and Heredity

- Define cells, tissues, organs and organisms
- Define populations, communities and ecosystems
- State the parts of the cell theory
- Identify cell organelles
- Explain the process of diffusion and osmosis
- Compare and contrast passive and active transport
- Explain photosynthesis, cellular respiration and fermentation
- Explain the cell cycle
- Understand patterns of inheritance
- Predict traits of offspring using Punnett squares
- Know the components and structures of DNA
- Explain the effects of mutations on genetic inheritance

Water

- Define aquifers, springs, wells, and ground water
- Describe water treatment and causes of pollution

Technology Lab 2000

- Learn technological terms
- Complete either one robotics or physical simulation
- Complete one multimedia project using PowerPoint, Hyperstudio, Photoshop, or video production
- Complete a project using Microsoft Word
- Learn about PowerPoint electronic portfolio development

Learning ... to find solutions

Physical Education

Many skills for mastery in this grade are continuations of the complexity of skills learned in previous years.

- Demonstrate control when performing the following manipulative skills:
 - Softball-throwing, catching, striking
 - Basketball – sliding, jumping, dribbling, passing, shooting
 - Soccer – running, kicking, trapping
 - Volleyball – bumping, serving
- Identify offensive, defensive, and cooperative strategies in soccer, basketball, floor hockey, volleyball, softball, and speedball.
- Demonstrate effective warm-up and cold down activities
- Demonstrate appropriate classroom behavior in games and activities
- Display appropriate cooperative and participatory behaviors
- Participate in fitness training and testing
- Set short and long term personal fitness goals using individual test data
- Evaluate fitness goal at end of the year
- Describe health benefits resulting in regular participation in fitness training
- Utilize Presidential fitness assessments

Health

- Identify dangers of specific drug use and five alternatives to harmful substances
- Define two types of eating disorders
- Recognize cause and effects of common diseases that affect the normal functioning of an individual
- Identify symptoms of infection in the body and recognize when a person should seek medical advice
- Identify factors that relate to prevention and transmission of STDs
- Recognize social and emotional changes that occur during adolescence
- Compare and contrast safe versus unsafe environments
- Develop a proposal to improve problem that causes health problem in the community.
- Generate a list of health related careers
- Identify safety precautions at public places
- Develop a sense of responsibility and cooperation within a group
- Identify ways to improve communication and problem solving at home, school and work place
- Recognize characteristics of healthy relationships
- Distinguish the difference between peer pressure and peer support
- Explain implications of healthy/unhealthy choices related to sexual activity
- Identify diseases caused by air pollution and any environmental factor that affects the body
- Explain ways to reduce the risk of harmful environmental factors

Learning ... to find solutions

Art

- Create a paper-maché project a 3-dimensional sculpture using newspaper, masking tape, found objects, paste, plaster and paint.
- Utilize principles of design and illustration techniques
- Create various 2-dimensional projects such as a design using the student's name as a focal point
- Develop artistic and creative skills through various drawing and painting activities

Music

- Develop an awareness and appreciation of the arts, music and history of the Baroque and Classical periods
- Summarize the characteristics of the societies of the Baroque and Classical periods
- Study the role of music and the musician in Baroque and Classical societies
- Study the characteristics of the development of representative musical forms of the Baroque and Classical Periods
- Discover and recognize characteristics of music during the Baroque and Classical Periods
- Study the lives of major composers during and representative compositions of the Baroque and Classical Periods

Spanish

Students at the Middle School take Spanish as part of the exploratory cycle. In addition, students in grades 7 and 8 may elect to also take full-year Spanish during or after-school with the intention of completing full year of high school Spanish by the conclusion of Middle School.

Grammar

- Know Spanish punctuation marks
- Know pronouns and noun-gender agreement
- Form questions and responses
- Use definite and indefinite articles
- Make nouns plural
- Know three types of infinitives
- Know adjective agreement
- Use and conjugate present tense verbs
- Living, shopping and using currency in Latin America
- Entertainment, sports and TV in Mexico
- La siesta, machismo and transportation
- Landmarks and Hispanic writers
- Royal family in Spain
- Foods, meals, manners and holidays
- Relationships and families

Culture

Have an understanding of:

- Aztec number system
- Maps of the Spanish-speaking world
- Typical school day in Spain and Latin America

Speaking and Listening

- Use phrases and sentences
- Make introductions
- Describe wants and needs
- Sequence events
- Tell time
- Discuss free time places and things