# 8th GRADE CURRICULUM



## Goals:

1. Students will use learned skills and flexibility in creating two and three-dimensional artwork.
2. Students will create drawings from multiple sources such as their own experiences, trends, the news and media or concepts in other subject areas for themes to incorporate into artwork.
3. Students will use subjects, themes and symbols of artwork from different cultures and eras.
4. Students will define, describe and demonstrate the effect of light on color: value, tone, shade.
5. Students will define, describe and demonstrate the effect of light on textures and forms: chiaroscuro.
6. Students will create more complex artworks with greater detail.
7. Students will portray objects using different: points of view, lighting, sizes, motions, and intensity.
8. Students will create artwork from what is observed, in the form of still life and landscapes.
9. Students will create abstract artwork incorporating various materials and media.
10. Students will use a variety of mediums and techniques to create artwork.
11. Students will increase art vocabulary and knowledge of various artists, current and those throughout history.
12. Students will learn about human forms and in detail how to map the face and begin to draw a self portrait.

## Content Topics: Knowledge/Skills/Values

1. Drawing and shading techniques
2. Basic clay techniques
3. More advanced design and construction techniques
4. Beginning drawing of human form and features
5. Painting techniques
6. Introduction into perspective drawing
7. Sculpture – construction and techniques
8. Plaster molding and mask making
9. Tessellations
10. Collage techniques
11. Basket making processes and techniques
12. Art History and using particular artist's styles, concepts and techniques

## Resources, activities, and assessments:

Poster and other visual materials
Art Magazines
Kiln
Teacher demonstration and instruction
Teacher made worksheets and projects

**Capitalization and Punctuation**

Students will:

1. Demonstrate command of the conventions of standard English including spelling, capitalization, and punctuation including ellipsis.

**Grammatical Structures**

Students will:

1. Use grammatical structures and sentence structures listed in grades 1 through 7 curriculums proficiently in written work.

**Parts of Speech**

Students will:

1. Use parts of speech and verbals listed in grades 5 through 7 curricula in written work proficiently.

**Listening Skills**

Students will:

1. Apply the listening skills listed in grades K through 5 curricula to analyze the purpose of information from teacher selected topics and sources.

**Vocabulary**

***Spelling:***

Students will:

1. Spell words based on eight grade reading and content.

***Acquisition:***

Students will:

1. Expand working vocabulary and apply vocabulary skills to reading, writing, and oral applications based on eighth grade reading content.
2. Apply knowledge of word origin and derivations to comprehend words used across disciplines.

**Literature**

***Literary Techniques****:*

Students will:

1. Interpret figurative and connotative language proficiently with grade level text.

***Literary Elements:***

Students will:

1. Evaluate text through the use of literary elements.
2. Recognize author's influence and style on cultural content.

***Comprehension Skills:***

Students will:

1. Apply comprehension skills listed in the K – 7 curricula to analyze grade level text.

***Literary Genres:***

Students will:

1. Read, discuss and analyze culturally and historically diverse grade level appropriate literature.
2. Explain the difference between poems, drama and prose referring to the structural elements.

**Informational Text**

***Text Structure:***

Students will:

1. Analyze how a sentence, paragraph or section supports the overall structure of a text.

***Comprehension Skills:***

Students will:

1. Evaluate text evidence and judge which evidence most strongly supports analysis of text.
2. Assess whether reasoning is sound and evidence is relevant within a text.
3. Analyze conflicting information on the same topic from two or more texts.
4. Analyze and evaluate media techniques used to convey a message.

***Vocabulary Skills:***

Students will:

1. Identify and define academic and subject specific words and phrases, including allusions and analogies, in a text relevant to eighth grade.

**Speaking Skills**

Students will:

1. Use the public speaking skills listed in grades 1 through 5 curricula to adapt speeches in a variety of contexts and tasks.

**Research Process and Reference Skills**

Students will:

1. Select relevant and credible information from multiple sources to construct a presentation following a standard format using a variety of sources and avoiding plagiarism.

**Writing**

***Writing Process:***

Students will:

1. Compose written work across all disciplines using the writing process.

***Sentence:***

Students will:

1. Construct and use a variety of structures, including compound/complex sentences, in all writing applications.

***Essay:***

Students will:

1. Write a research paper using citations from at least six sources following standard MLA style without plagiarism.
2. Compose arguments that support claims with clear reasons and relevant evidence and distinguish from alternate or opposing claim.

## The Number System

Students will:
1. Recognize irrational numbers, estimate their values, and approximate their location on a number line

## Expressions and Equations

Students will:
1. Apply the properties of integer exponents to generate equivalent numerical expressions
2. Evaluate and solve square root and cube root equations
3. Use numbers expressed in scientific notation to estimate and compare very large or very small quantities
4. Perform operations with numbers expressed in scientific notation
5. Graph, interpret and compare linear equations and the corresponding slopes
6. Use similar triangles to find the slope of a linear equation on a coordinate plane
7. Solve linear equations in one variable
8. Solve a system of linear equations algebraically and estimate the value of the system graphically

## Functions

Students will:
1. Define a function as a set of ordered pairs
2. Compare properties of two functions that are represented in different ways
3. Recognize the equation of a linear function
4. Use functions to model relationships between quantities

## Geometry

Students will:
1. Compare two dimensional figures and determine if they are congruent or similar
2. Explain facts about the angle sum of a triangle and the exterior angle measures. Determine the values of angle measures involving parallel lines cut by a transversal
3. State and apply the Pythagorean Theorem
4. Solve real-world problems involving volume of cylinders, cones, and spheres

## Statistics and Probability

Students will:
1. Construct and interpret scatter plots and describe the pattern
2. Estimate a best fit line for a group of data
3. Interpret linear equations to solve real world problems
4. Construct and interpret data using two categorical variables and identify any pattern of association

## Resources, activities, and assessments:

Progress in Mathematics- Sadlier-Oxford (copyright 2012)
On-line textbook-Progress in Mathematics 5
Simple Solutions Level 5- Bright Ideas Press (consumable material-annual purchase)
Manipulatives for counting, time, money, measuring, and fractions
Calculators
Student Dry Erase Boards
Smart Notebook software for interactive media
IA IOWA Assessment- Riverside Publishing (2012)

## Goals:

1. Students will understand the concepts of variable, expression, and equation.
2. Students will represent situations and number patterns with tables, graphs, verbal rules, and equations.
3. Students will analyze tables and graphs to identify properties and relationships.
4. Students will develop confidence in solving linear equations using concrete examples.
5. Students will investigate inequalities and nonlinear equations.
6. Students will apply algebraic methods to solve a variety of real-world and mathematical problems.
7. Students will solve quadratic equations by completing the square.

## Content Topics: Knowledge/Skills/Values

1. Real Numbers
2. Variables
3. Equations
4. Polynomials and Factoring Polynomials
5. Fractions
6. Functions
7. Graphing and Solving Linear Equations
8. Inequalities
9. Rational and Irrational Numbers
10. Quadratic Functions
11. Problem solving

## Resources, activities, and assessments:

Algebra I - McDougall Littell (copyright 2007)
Manipulatives
Hands-on equations
Math labs
Iowa Tests of Basic Skills

## Goals:

1. Students will describe elements of music through singing and listening.
2. Students will apply basic elements of music and describe music using basic musical vocabulary.
3. Students will be able to read music and write musical notation
4. Students will differentiate between styles of music and use appropriate musical vocabulary to describe the style of music in the selections.
5. Students will learn about the history of music, composers, and multicultural music.
6. Students will apply their knowledge of music and show the relationship between music and other subjects.
7. Vocal students will compose simple melodic notations and create rhythmic and melodic ostinato patterns.
8. Students will sing in parts or play instruments using two and three-part harmony.

## Content Topics: Knowledge/Skills/Values

1. Elements of music: melody, harmony, rhythm, form, media, and expression
2. Musical vocabulary
3. Styles of music: music from historical periods of the arts, such as rondo, fugue, concerto, sonata, opera, operetta, jazz, etc.
4. Read musical notation in oral and written form: treble clef, bass clef, note type, note names, time signature, rests, note values, endings, pick-up notes, accent symbols, and repeats
5. Musical styles
6. Music across the curriculum: mathematical relationship of beats and note values, influence of historical events and composer to the arts, movement of sound waves, writing reports and biographical outlines
7. Intervals – Kodaly System

## Resources, activities, and assessments:

Ralph Kamen - Book on Music Appreciation
Book - If It Ain't Baroque
Resource books on composers
Various CD's and videos
Posters and timelines
Manuscript Books
Keyboards
Teacher made worksheets and tests
Computer lab - Internet research

## Goals:

1. Students will describe elements of music through playing an instrument.
2. Students will demonstrate knowledge of basic vocabulary terms.
3. Students will be able to read music and write music notation.
4. Students will be able to listen and describe music.
5. Students will learn about the history of music, composers, and multicultural music.
6. Students will apply their knowledge of music and show the relationship between music and other subjects.

## Content Topics: Knowledge/Skills/Values

1. Elements of music: melody, harmony, rhythm, form, media, and expression
2. Vocabulary: steady beat, rhythm, syncopation, tempo, dynamics, music notation, periods of history, and musical styles
3. Styles of music: music from historical periods of the arts, such as rondo, fugue, concerto, sonata, opera, operetta, jazz, etc.
4. Read music: notation in oral and written form. Treble clef, note type, note names, time signature, rests, note values, endings, pick-up notes, accent symbols, and repeats.
5. Differentiate between styles of music and use vocabulary terms to describe music being performed.
6. Study of various composers and relationship to history that are introduced in relationship to the music being played.
7. Music across the curriculum-mathematical relationship of beats and note values, movement of sound waves, writing reports and biographical outlines.

## Resources, activities, and assessments:

Method Book "Standard of Excellence"
Resource books on composers
Various CD's and videos
Posters and timelines
Four families of instruments: strings, percussion, brass, woodwinds
Teacher-made worksheets and tests
Computer Lab – Internet Research

## Goals:

1. The students will develop the various skills of physical activity/sports/games.
2. The students will identify equipment used in sports/games.
3. The students will become familiar with rules associated with sports/games.
4. The students will demonstrate knowledge of sports/games through participation.
5. The students will practice and observe safety procedures.

## Content Topics: Knowledge/Skills/Values

1. Long-distance running
2. Short-distance running
3. Fitness/aerobics
4. Tumbling
5. Football
6. Team sports
7. Track and field
8. Basketball
9. Softball/baseball
10. Soccer

## Resources, activities, and assessments:

Presidential Physical Fitness Tests
Healthteacher.com
Team sports
Teacher Created Skills Tests
Teacher observation

## Goals:

1. Students will express openness to the Holy Spirit and a deeper understanding of the working of the Gifts and Fruits of the Holy Spirit in their lives.
2. Students will apply knowledge of Catholic teachings to moral decision making.
3. Students will demonstrate knowledge of and readiness to commit themselves to celebrate the Sacrament of Confirmation.
4. Students will share their time, talent, and treasure in service to the community in response to the Gospel call.
5. Students will demonstrate respect for life from conception, through each stage of human development, to physical death.

## Content Topics: Knowledge/Skills/Values

1. Confirmation
2. Creeds
3. Gifts and Fruits of the Holy Spirit
4. Laws of the Church and Holy Days of Obligation
5. Ten Commandments
6. Law of Love
7. Beatitudes
8. Spiritual and Corporal Works of Mercy
9. Saints and Their Witness to the Faith
10. Prayers (Mastered: Prayer to the Holy Spirit)

## Resources, activities, and assessments:

Confirmed in the Spirit – Loyola (copyright 2007)
We Live Our Faith – Vol. 2 – Sadlier (copyright 2007)
Catechism of the Catholic Church
Right Start Program
Bible
Children's Daily Prayer Book – Liturgy Training Publications
Lectionary
Mass Preparation
ACRE Test
Confirmation Prayer Services
Parent/Student/Sponsor Confirmation Meeting
Confirmation Student Portfolios

## Goals:

1. Students will understand forces, motion, and energy.
2. Students will be able to identify the different properties of matter.
3. Students will examine the nature of heat.
4. Students will understand the relationship of waves with light and sound.
5. Students will understand how machines make work easier.

## Content Topics: Knowledge/Skills/Values

1. Newton's Laws of Motion
2. Scientific Method/Graphing (observation, inferences, hypothesis, independent/dependent variable, procedure, conclusion)
3. Law of Conservation of Energy
4. Buoyancy
5. Electromagnetic
6. Types and Characteristics of Waves
7. Design a Simple Machine
8. Measure Work, Power, and Mechanical Advantages
9. Phases of Matter
10. Heat Transfer

## Resources, activities, and assessments:

Introduction to Physical Science – Glencoe/McGraw-Hill (copyright 2008)
Fast I Hands-on Activities
Internet
Videotapes
Science Fair Project
Teacher made tests and projects
"Scienceworld" Magazine
IA Iowa Assessments- Riverside Publishing (2012)

## Goals:

1. Students will be able to communicate reasons for westward expansion, including the philosophy of Manifest Destiny.
2. Students will understand the social, economic and political structure in the North and South that led to the Civil War and the lasting effect that had on this country.
3. Students will have an understanding of the growth and change that took place in the U.S. in the late 1800s/early 1900s – including technology, business, lifestyle, and foreign policy.
4. Students will gain a knowledge of immigration and its effects on our nation, including how it affected them personally.
5. Students will create a PowerPoint presentation after researching family history.
6. Students will be able to explain major events in the 20th century and the role that the U.S. played in them and the effects they had on the U.S.
7. Students will use knowledge of government process and apply it to solve a local problem.

## Content Topics: Knowledge/Skills/Values

1. Settlement of the whole U.S. (Texas, Mexican War, Oregon)
2. Civil War (including events leading up to)
3. Reconstruction
4. Westward Expansion
5. Industrial Revolution
6. Spanish-American War
7. Immigration
8. World War I
9. 1920s
10. Great Depression
11. World War II
12. Later 20th Century

## Resources, activities, and assessments:

United States History Holt (2009)
"Junior Scholastic" Magazine
Reading materials gathered by the teacher
Teacher created tests and projects
Cooperative learning activities
Project Citizen Handbook and representative
Internet
Videos
IA Iowa Assessments- Riverside Publishing (2012)