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GRADE 4 CURRICULUM

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GRADE 4: MATHEMATICS

The purpose of the Fourth Grade Math program is to continue building mathematical knowledge for future concepts, based on concepts already learned, as well as introducing new concepts. Our program uses a unit approach, provides continuous review, practice and enrichment.

OBJECTIVES

Place Value and Money

Students will be able to:

- Recognize and identify different uses of numbers
- Read, write, and identify place value of digits in whole numbers through hundred millions
- Compare, order, and round whole numbers and money
- Find and compare values of collections of bills and coins; make change
- Solve problems using skills and strategies

Operations and Algebraic Reasoning

Students will be able to:

- Use addition properties and subtraction rules
- Estimate, add, and subtract three-, four-, five-, and six-digit whole numbers
- Use multiplication properties and division rules
- Multiply and divide by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12
- Write expressions and equations, evaluate expressions and functions, and solve equations; use order of operations
- Solve problems using skills and strategies

Multiplication of Whole Numbers

Students will be able to:

- Use mental math to multiply multiples of 10
- Estimate products
- Multiply two-, three-, four-, and five-digit numbers by one-digit numbers
- Multiply two-, three-, four-, and five-digit numbers by two-digit numbers
- Solve problems using skills and strategies

Division of Whole Numbers

Students will be able to:

- Use mental math to divide multiples of 10
- Estimate and divide two-, three-, four-, and five-digit dividends by one digit divisors; divide money
- Find factors and multiples of a number; identify prime and composite numbers
- Find the average of a set of numbers
- Estimate and divide two-, three-, four-, and five-digit dividends by two-digit divisors
- Solve problems using skills and strategies

Measurement and Graphing

Students will be able to:

- Estimate, measure, compare, and convert customary and metric units of length, capacity, and weight/mass.
- Determine elapsed time using clocks and calendars.
- Read, write, and compare temperatures in degrees Fahrenheit and degrees Celsius.
- Collect, organize, and analyze data; find mean, median, mode, and range.
- Make, read, and interpret line plots, stem-and-leaf plots, bar graphs, circle graphs, and line graphs.
- Solve problems using skills and strategies.

Geometry and Measurement

Students will be able to:

- Identify, classify, and describe plane figures.
- Identify congruent figures and figures with line and rotational symmetry.
- Identify, perform, and predict the results of rotations, reflections, and translations.
- Estimate and find perimeter, area, and volume.
- Identify, classify, and describe solid geometric figures.
- Solve problems using skills and strategies.

Fractions and Decimals

Students will be able to:

- Identify parts of regions and groups; find fractional parts of a group; find equivalent fractions.
- Identify and write mixed numbers.
- Compare and order fractions.
- Add and subtract fractions and mixed numbers with like denominators; use models to add and subtract fractions with unlike denominators.
- Write fractions and mixed numbers as decimals and vice versa.
- Identify, compare, order, and round decimals.
- Estimate, add, and subtract decimals to thousandths.
- Solve problems using skills and strategies.

Probability/Algebra and Graphing

Students will be able to:

- Describe the probability of an event and determine the number of possible outcomes in an experiment.
- Use probability to make predictions.
- Use tables, graphs, and tree diagrams to represent probability outcomes.
- Locate, identify, and graph points on a coordinate plane; graph lines.
- Write integers.
- Solve problems using skills and strategies.

TEXT/MATERIALS

The materials used for the 4th grade math program are Houghton Mifflin Math textbook (2007 edition), and Houghton Mifflin resources.

INSTRUCTION

Teachers will:

- Assessing prior knowledge using “Problem of the Day”
- Whole class instruction
- Small group instruction
- Cooperative learning groups
- Individual instruction
- Using white boards for individualized assessment
- Using manipulatives
- Illustration of problems for visual aids
- Acting out problems
- Creating stories to explain problems
- Writing and practicing various algorithms
- Guided Practice activities and problems
- Practice activities and problems
- Enrichment activities and problems
- Formal and Informal Assessments
- Games
- SMARTboard instruction and activities
- iPads

*Updated by Jenn Andrewchuk and Donna Sullivan
June 11, 2015*

GRADES 4: SCIENCE

The purpose of the fourth grade science curriculum is to actively engage students in scientific learning through inquiry-based activities, hands-on experiments, and multi-media lessons to increase students understanding of scientific concepts.

OBJECTIVES

Life Sciences

Kingdoms of Life

Students will be able to:

- Summarize five functions of living things.
- Compare plant and animal cells.
- Define and compare the kingdoms of living things.
- Describe different types of organisms.
- Describe the functions of roots, stems, and leaves.
- Explain the processes of photosynthesis and respiration.
- Describe pollination in flowering plants.
- Explain the life cycle of a flowering plant.

The Animal Kingdom

The students will be able to:

- Define animal and list the basic needs and characteristics of animals.
- Summarize the characteristics of groups of invertebrates.
- Define vertebrates and describe their characteristics.
- Define the seven groups of vertebrates.
- Identify seven organ systems of animals.
- Summarize the structures and functions of the seven organ systems.
- Compare incomplete metamorphosis to complete metamorphosis.
- Summarize how traits are passed from parent to offspring.

Earth Science

Shaping Earth

Students will be able to:

- Identify Earth's landforms and the features of the ocean floor.
- Describe the layers of Earth.
- Describe how the movement of plates builds mountains and causes earthquakes and volcanoes.
- Explain how scientists use seismic waves to study earthquakes.
- Define and give examples of physical and chemical weathering.
- Explain how erosion helps to break down and build up Earth's land.
- Describe the effects of floods, fires, tornadoes, and hurricanes.
- Explain the cause and effects of landslides and avalanches.

Saving Earth's Resources

Students will be able to:

- Describe the properties used to identify and classify minerals.
- Compare the three types of rocks.
- Describe the different layers of soil and how they form.
- Define the texture, porosity, and permeability of soil.
- Describe the different kinds of fossils, the ways they form, and how they provide evidence of Earth's past.
- Explain why fossil fuels are a valuable and nonrenewable resource.
- Explain how the water cycle renews Earth's fresh water.
- Describe ways people use and obtain fresh water.
- Identify the effects of pollution to land, water, and air.
- Describe ways to reduce pollution and conserve resources.

Weather and Climate

Students will be able to:

- Define the atmosphere as a mixture of different gases.
- Describe four properties of weather that can be measured and the tools used to measure them.
- Sequence the steps of the water cycle.
- Identify and describe types of clouds and precipitation.
- Explain how air masses form and identify the types of weather they cause.
- Forecast the weather by interpreting data on a weather map.
- Define and give examples of climate.
- Explain the main factors that determine climate.

The Solar System and Beyond

Students will be able to:

- Explain how Earth's rotation causes the cycle of day and night.
- Explain why the Sun's apparent motion in the sky differs from season to season.
- Explain why the Moon is covered with craters.
- Identify the causes of the Moon's phases, solar eclipses, and lunar eclipses.
- Define and describe the solar system.
- Discuss the properties of the inner and outer planets.
- Explore stars, including their composition, appearance, and distance from Earth.
- Identify the characteristics of the Sun and its importance to life on Earth.

Matter

Properties of Matter

Students will be able to:

- Define and describe the three states of matter.
- Compare and contrast properties of matter.
- Describe some properties of matter that can be measured.
- Measure properties of matter using correct units.
- Explore how matter is classified.
- Explain how elements are organized in the periodic table.

Matter and Its Changes

Students will be able to:

- Comprehend that a change of state is a physical change.
- Differentiate between physical change and chemical change.
- Explain that mixtures are combinations of matter.
- Describe ways of separating mixtures.
- Describe how compounds form and their physical properties.
- Compare and contrast acid and bases.

Forces and Energy

Forces

Students will be able to:

- Explain how motion, speed, velocity, and acceleration are related.
- Summarize the forces that act on a moving object, including friction and gravity.
- Demonstrate a basic understanding of how forces affect motion.
- Explain how friction affects motion.
- Define work and energy.
- Compare and contrast potential and kinetic energy.
- Identify the different kinds of simple machines.
- Explain how simple machines work together to make compound machines.

Energy

Students will be able to:

- Explain that heat flows from warmer materials to cooler materials.
- Describe and define conduction, convection, and radiation.
- Explain how sound is produced and how it travels through a medium.
- Identify the characteristics of sound, including frequency, pitch, volume, and echoes.
- Demonstrate that light travels in a straight line.
- Describe ways light can be absorbed, reflected, or refracted by objects.
- Describe the characteristics of electrically charged objects.
- Explain the difference between static and current electricity.
- Describe a magnetic field and the effect of distance on magnetic force.
- Understand how an electromagnet, an electric motor, and a generator work.

Health Science

Students will be able to:

- Explain the four chambers of the heart and understand how the heart pumps blood throughout the body.
- Explain the importance of the respiratory system, and what organs are involved.
- Understand how the two systems work together.
- Describe the effects that cigarette smoking has on the respiratory system.

TEXT/MATERIALS

- *Science a Closer Look*, Macmillan/McGraw Hill, 2008 edition.
- *Science a Closer Look*, Macmillan/McGraw Hill, 2008 teacher's edition.
- Materials Kits
- Activity Flipcharts
- Leveled Reading books
- Computer
- SMARTboard
- Class iPads

INSTRUCTION

Teacher will:

- lead class lectures and discussions
- conduct mini experiments and demonstrations
- assign independent reading and assignments based on class lecture and discussion
- assign independent or cooperative group projects to be completed in class
- read additional books in class to enhance concepts learned
- show videos to enhance the concepts learned
- facilitate games created for each unit of study
- use Smartboard programs to enhance topics

*Updated by Donna M. Sullivan
June 11, 2015*

GRADE 4: LANGUAGE ARTS

The purpose of the Language Arts curriculum is to expose children to classical and modern literature, acquire new vocabulary and use it correctly in reading and writing, and improve oral language skills.

OBJECTIVES

Reading/Literature

Understanding a Text and Making Connections

Students will be able to:

- identify and show the relevance of foreshadowing clues
- identify sensory details and figurative language
- identify the speaker of a poem or story
- make judgments about setting, characters, and events and support them with evidence from the texts.
- summarize main ideas and supporting details
- locate facts that answer the readers' questions
- distinguish cause from effect
- identify similarities and differences between the characters or events in a literary work and the actual experiences in an author's life
- interpretation of plot, setting and character
- interpret current events through reading publications

Genre

Students will be able to:

- identify forms of literature: poetry, fiction and nonfiction
- acquire knowledge of familiar sayings, traditional stories, classical literature, and folktales

Theme

Students will be able to:

- relate literary themes of fiction and nonfiction to personal experiences
- identify themes as lessons and folktales
- analyze and evaluate similar themes across poetry, nonfiction and fiction texts

Style and Language

Students will be able to:

- identify words appealing to the senses or involving direct comparisons in literature and spoken language
- identify and analyze how an author's use of words creates the tone of the story
- identify imagery when responding to literature

Writing

Composition

Students will be able to:

- write with a clear focus
- write with coherent organization
- write with sufficient detail
- use the writing process: pre-write, draft, revise, edit and publish.
- compose a personal narrative
- compose a comparative writing piece
- compose a persuasive writing essay
- compose an explanatory writing piece
- compose an expository writing piece
- compose a fictional story
- compose a various types of poetry
- compose an autobiography and biography
- write a fictional story containing story elements: characters, plot, setting, conflict and resolution
- write brief summaries of information gathered through research for Social Studies and Science using encyclopedias, magazines, and internet resources
- write an interpretation of a variety of sayings and phrases to expand their proverbial culture awareness

Language Mechanics/Grammar/Correct Usage

Students will be able to:

- analyze standard English Grammar
- understand what a complete sentence is
- identify subject and predicate
- distinguish complete sentences from fragments
- identify and correct run-on sentences
- identify subject/verb agreement
- identify and use different sentence types: declarative, interrogative, imperative, and exclamatory
- know the following parts of speech and how they are used: nouns, pronouns, verbs, adjectives, articles, adverbs, conjunctions, interjections
- use correct punctuation
- understand synonyms and antonyms
- use underlining and italics for title of books
- know how prefixed and suffixes affect word meaning
- review correct usage of homophones

Vocabulary Development

Spelling/vocabulary

Students will be able to:

- understand new vocabulary
- understand new spelling words
- use spelling words correctly in written and oral language
- complete spelling workbook pages for weekly lessons
- define vocabulary words from text
- apply vocabulary words in written and oral language

Speaking and Listening

Speaking

Students will be able to:

- contribute their own information and ideas in class or group discussions
- responds to class and group discussions
- give oral presentations about personal experiences
- express opinion of literary work or class topic
- deliver presentation using clear annunciation and vocabulary

Listening

Students will be able to:

- listen to speeches
- listen to opinions of peers during class and group discussion
- listen to teacher's instructions

Responding to/Analyzing Media

Students will be able to:

- identify and apply knowledge of elements of film, video, the internet, multimedia productions, and dramatic performances

TEXT/MATERIALS

- Scott Foresman Teacher Editions
- Scott Foresman Reading Street Student Editions
- Scott Foresman Reader Writer Notebook
- Scott Foresman Weekly Tests
- Scott Foresman Benchmark Tests
- Scott Foresman Baseline Tests
- Scott Foresman End of Year Tests
- Scott Foresman Assessment Handbook
- Scott Foresman Leveled Readers
- Scott Foresman Fluency Book
- Scott Foresman AudioText
- Scott Foresman Leveled Reader Teacher Guides and Masters
- Scott Foresman Vocabulary Cards
- Scott Foresman Retelling Cards
- Scott Foresman Reading Street Website
- Leveled Books for Accelerated Reader
- Thank You, Mr. Falker, Patricia Polacco
- The Graves Family, Patricia Polacco
- My Rotten Redheaded Older Brother, Patricia Polacco
- Christmas Tapestry, Patricia Polacco
- Mr. Lincoln's Way, Patricia Polacco
- A Christmas Carol, Charles Dickens
- Computer
- Smartboard
- iPad

INSTRUCTION

Teachers will:

- Present lessons through lecture, discussion, guided reading, media, interactive activities, graphic organizers, and modeling.
- Choral reading, partner reading, read-alouds
- Visuals
- Kinesthetic activities
- Evaluate
- Guided reading

*Updated by Donna Sullivan and Jennifer Andrewchuk
June 11, 2015*

GRADE 4: SOCIAL STUDIES

The purpose of the Fourth Grade Social Studies program is to educate the children about the geography, economy, people, heritage and history of the 5 Regions of the United States of America. This is taught using many different learning strategies, helping children with different learning abilities.

OBJECTIVES

The 5 Regions of the United States

Students will be able to:

Geography for each Region:

- to identify where on a map each state in the Northeast is located.
- to identify the two letter Postal Abbreviation and the Capital for each state in the Northeast Region.
- about the landforms, lakes, rivers, etc. of the Northeast Region.

Economy for each Region:

- about the natural resources of the Northeast Region.
- about different industries that the Northeast Region is known for.
- about how the people of the Northeast use the resources around them to produce goods and services needed to survive.
- about how the economy of the Northeast Region has changed over time.

People for each Region:

- about the cultures and ethnicities of the people living in the Northeast Region.
- about the traditions and festivals in the Northeast Region.
- about the history and heritage of the people in the Northeast Region.
- about how the people of the Northeast Region has changed over time.

Our Nation's Story

Students will read about the people, places and events that shaped our nation. Including:

- The First Americans
- Some of the Causes, Events and Battles of the Revolutionary War
- Our Nation's Birth
- How Our Nation Grew
- Some of the Causes, Events and Battles of the Civil War
- How the world has changed over time and the effects on the geography, people and economy
- Our Nation and World today, and what the future may hold
- Our Country's Climate
- Our Country's Regions
- How to run a business
- Our Nation's Economy
- State and Local Government
- Our Nation's Government
- Our Democratic Values

Map Skills

Through the year students will learn:

- How to identify all the regions, states and capitals of the United States of America on a map
- How to read a timeline
- How to use an elevation map
- How to read line graphs
- How to understand longitude and latitude
- How to compare maps at different scales
- How to read circle graphs
- How to compare bar and line graphs
- How to use special purpose maps
- Use road maps

TEXT/MATERIALS

- MacMillan/McGraw-Hill, Timelinks textbook.
- MacMillan/McGraw-Hill, Timelinks Assessment book.
- Maps
- SMARTboards
- iPads

INSTRUCTION

Teacher will:

- lead class lectures and discussions
- assign independent reading and assignments based on class lecture and discussion
- assign independent or cooperative group projects to be completed in class
- read additional books in class to enhance concepts learned
- show videos to enhance the concepts learned
- facilitate games created for each unit of study
- use Smartboard programs to enhance topics

SOURCES

- The sources for this outline were *MacMillan/McGraw-Hill, Timelinks textbook.*

*Updated by Jennifer Andrewchuk
June 11, 2015*

GRADE 4: RELIGION

The fourth grade religion program builds on and continues to educate the children in Catholic doctrine and morality, while teaching Scripture, prayer and worship. We encourage a value system based on the ability to relate the teachings of Jesus to our lives and the knowledge of the rich heritage we share as Christians. Through reading, discussing, acting, singing, creating, and sharing, students learn the great value of their Catholic education with Jesus and how to use it in our world.

OBJECTIVES

Doctrine

Students will be able to:

- know that the Great Commandment is the most important rule from God
- be introduced to the Beatitudes as Jesus's rules for happiness
- learn the Ten Commandments, and that they are God's guide to a good life
- understand that God forgives us
- learn that Reconciliation is a way of forgiveness from God
- learn about the following saints, martyrs, and heroes:
 - St. Francis of Assisi
 - St. Martin de Porres
 - St. Frances of Rome
 - St. Thomas More
 - Mother Elizabeth Ann Seton
 - Saint Timothy
 - Saint Titus
 - St. Augustine
 - St. Blaise
 - St. Catherine of Bologna
 - St. Catherine Labourne
 - First Martyrs of the Church of Rome
 - St. Francis de Sales
 - St. Helena
 - St. John Vianney
 - St. Joseph
 - St. Josephine Bakhita
 - St. Louis IX
 - Saint Mary
 - St. Paul
 - St. Peter
 - St. Teresa of Avila
 - St. Therese of Lisieux
 - St. Vincent de Paul
 - Saint Monica
 - Mary and the Feast of the Assumption
 - Saint Clare
 - Saint Jean de Brebeuf and Champio

Morality

Students will be able to:

- learn about choosing good over evil
- understand that all God created is good
- practice being God's servants to the world
- apply lessons of Jesus' parables to everyday situations

Scripture

Students will be able to:

- learn the Ten Commandments the Great Commandment
- learn and understand the following Bible stories
 - Story of Creation
 - Jesus and His Family
 - Jesus and Mary Magdalene
 - Jesus and the Apostles on the Shore
 - Jesus Forgives Sins
 - Jesus Promises to Send the Holy Spirit
 - Jesus Raises Lazarus from the Dead
 - Mary Gives God Praise
 - One Body, Many Parts
 - Pentecost
 - Receiving the Holy Spirit
 - Seeing Christ in Others
 - Simon and Anna Meet the Baby Jesus
 - The Commissioning of the Disciples
 - The Light of the World
 - The Lord's Prayer
 - The New Commandment
 - The Sermon on the Mount
 - The Transfiguration
 - The Unforgiving Servant
 - The Laborers in the Vineyard
 - Temptation in the Garden
 - The Temptation of Christ
 - Story of Pentecost
 - The Good Samaritan
 - The Rich Young Man
 - The Ten Commandments
 - Jesus Goes to the Temple
 - Put Away Your Sword
 - The Rich Man and Lazarus
 - The Holy Week and Easter stories
 - The Merciful Father and his two sons
 - Road to Bethlehem and the Nativity
 - The Lost Sheep

Prayer and Worship

Students will be able to:

- pray daily, including morning prayer with intentions, before lunch blessing, and end of day prayer
- attend the first Friday mass with school monthly
- prepare and celebrate one first Friday mass during the school year with their homeroom class
- learn and recite the rosary, including the prayers: Sign of the Cross, Hail Mary, The Lord's Prayer, Glory Be to the Father
- prepare and celebrate the Stations of the Cross at church
- participate in reconciliation at church and recite the Act of Contrition
- learn and use The Apostle's Creed and Canticle of the Sun
- participate in daily Advent prayer services during the season of Advent
- * prepare and perform a song of celebration for the school nativity play
- learn about meditation prayer, spontaneous prayer, the Psalms, and the Beatitudes

TEXTS/MATERIALS

- RCL Benziger, Blest Are We 4, textbook
- RCL Benziger, Blest Are We 4, activity book
- RCL Benziger, Blest Are We 4, test book
- RCL Benziger, Blest Are We 4,, teacher's edition
- Community for Children, Second Step Program
- Rosary beads
- Stations of the Cross booklets
- Arts and crafts activities for projects, such as construction paper, glue, crayons, scissors, markers, etc.

INSTRUCTION

Teachers will:

- Read lessons from the text book with the children
- Guide children to create crafts as visual reminders of lessons in the book\
- Instruct children in role-play activities
- Guide children in acting out stories from the Bible
- Enrich lessons and activities with spiritual music

*Updated by Jennifer Andrewchuk and Donna Sullivan
June 11, 2015*

GRADES 4 AND 5: SPANISH

The purpose of the Spanish program for grades 4 and 5 is to add to the students' base of vocabulary and acquired structures from the previous levels. Understanding that some students may be new to the program and/or may have acquired the previous years' vocabulary at differing levels, the students will receive review and repetition as they transition into the full year program. Students will be challenged to use vocabulary at a higher level in each subsequent grade.

All four language skills will be emphasized: listening, speaking, reading and writing. At this level, students will be asked to retell a story and answer basic questions in Spanish, additionally, they will do more formal reading (short stories and, in grade 5, a novice-level novel). Students may also be assigned to listen to an audio file (in or out of class) and show that they understand it. Students will be expected to keep a Spanish folder with their materials and may have some written work.

Students will learn some interesting facts and differences about the Spanish language and Spanish and Latin American culture as well as listen to and sing authentic songs in Spanish. Spanish classes for grades 4 and 5 meet once a week (30 minutes) all year long.

TOPICS/OBJECTIVES

Students will be able to use Spanish learned in grades 1-3 and:

- Understand and respond appropriately to the interrogative words
- Tell time
- Give the date
- Describe the weather and seasons
- Describe clothing
- Say a prayer in Spanish
- Count from 0-100
- Describe basic classroom objects
- Describe basic rooms in a house
- Use location words
- Use colors as descriptors
- Use adjectives: tall, short, big, small, etc.
- Use adverbs: fast, slow, etc.
- Retell a story in Spanish
- Read a short story or novice-level novel and answer questions about it (oral or written)
- Develop strategies for reading in a foreign language (i.e. use of cognates)
- Listen to a story and answer questions about it (oral or written)
- Respond appropriately to spoken commands (3rd person singular)
- Use third person singular and plural forms of present tense verbs and begin to understand/recognize second person singular
- Grade 5 –use first person singular form of present tense verbs
- Write a short story in Spanish (begin with one sentence at lower level, then increase), in groups/pairs and individually

RESOURCES

- *Sing, Dance, Laugh and Eat Tacos* CD series by Barbara MacArthur
- Various Internet resources (i.e. YouTube song videos, teacher resources)
- SeñorWooly.com materials
- TPRS resources (Blaine Ray, Carol Gaab, and other authors), including novels, teacher guides and on-line forum
- Teacher's personal library of authentic rhymes and children's songs
- Flash cards, teacher-generated manipulatives and realia
- Teacher iPad/Apple TV (where available)
- Authentic music from teacher's music library

INSTRUCTION

The teacher will:

- Present the new vocabulary and structures and use them in context
- Provide multiple opportunities to practice new vocabulary and structures via listening, speaking skills and adding more reading and writing skills, especially in 5th grade
- Recycle/review past vocabulary
- Create scenarios for students to act out a story using the vocabulary
- Ensure that students understand spoken and written Spanish
- Use Smartboard for presentation of materials
- Use iPad and other applications to assist in creation and presentation of materials
- Provide handouts to students
- Teach reading strategies – i.e. looking for cognates, when to look up an unfamiliar word, reading for general meaning
- Provide manipulatives, realia and visuals to enhance comprehension
- Use authentic music and teaching songs that reinforce culture and class topics
- Use the target language to personalize the lesson whenever possible
- Use Spanish predominantly in class

*Prepared by Amy O'Leary, Spanish Teacher
January 2015*

GRADE 4: ART

The purpose of the art program is to further develop students' understanding of art, both in the existing artwork recognized by our culture and others as well as the concepts used in art-making. Art is examined as a formal subject and also as it relates to other subjects in the curriculum. Students enhance their creative, critical and analytical thinking while working on individual and group projects.

OBJECTIVES

Art Elements

Students will:

- explore line as a means to describe and express.
- develop understanding of volume and depth as aspects of space.
- study and fine-tune the application of light and dark: values.
- define further color theory and apply towards artwork.
- express understanding of shape, composition and texture in collage form.
- further recognize and solve the challenges in creating a 3D work of art versus a 2D piece.

Art in Culture and Nature

Students will:

- create understanding of the relationship between various cultures viewing similarities in cross-cultural art forms.
- look at the differences between cultural art forms and learn to recognize the characteristics that make each culture's art unique.
- distinguish between organic and artificial lines and shapes.
- explore identity and its practical application in creating unique personal artwork.

Art and History

Students will:

- look at, discuss, and create artwork based on various artists throughout history including but not limited to, surrealists, impressionists, and abstract artists.

Art Experiences

Students will:

- define and understand portraits and proportions of the face.
- explore optical illusions, how they work, creating one of their own.
- explore 3D art through the use of clay.
- create artwork that is reflective of various major seasons such as Christmas, Valentines Day and events such as the May Procession.

MATERIALS

- Art Posters
- Library Books
- Art Reference Materials in Art Room
- Slides/PowerPoint presentations
- Computer/computer projector
- Art Media: pencils, pastels, paint, plaster of paris, clay, recycled materials, paper, and related materials.

INSTRUCTION

Teacher will introduce content via lecture and classroom discussion. Afterwards, teacher will demonstrate steps toward completion of project, outlining expectations which will at times be stated in writing. Students will complete art project and if time allows, some students will present their work to class, describing their process and inspiring further discussion and constructive evaluation.

*Updated by Jeff Moses
August 27, 2014*

GRADE 4: COMPUTER

The purpose of the computer curriculum for grade four is that students will be able to use a computer program to create a document and save and retrieve that information. The purpose is also to practice proper typing techniques and to practice grade level skills using available software. Students come to the computer lab once a week for 30 minutes and work with the computer teacher.

OBJECTIVES

- Students will be able to:
- Practice correct keyboarding techniques
- Become proficient using Word (headers and footers, spell and grammar check, margins, etc.)
- Create basic graph in Excel
- Use internet skills to search safely

MATERIALS

- Dell Core i5, there is one for each student. Each student computer has a 17 inch monitor, keyboard, mouse and headphones.
- Smart Board
- Apple iPad Air

SOFTWARE

- Microsoft Office
- Apple Apps

INSTRUCTION

The teacher will:

- Use direct instruction and demonstration of software to present lesson. This can include Smartboard and/or other available technology
- Facilitate classroom discussion related to material being presented
- Oversee students as they work independently

*Updated by Kerrie Abate
October 10, 2014*

GRADES 3-5: PHYSICAL EDUCATION

The purpose of the physical education program for grades 3-5 is to reinforce locomotor skills, introduce sport specific skills, and learn how to develop healthy life skills. This is accomplished through individual and team based activities.

OBJECTIVES

Students will:

- practice different locomotor skills (hopping, skipping, galloping, etc.)
- play holiday and history based tag games
- identify space awareness (personal space)
- practice coordination skills for sport specific games, i.e soccer (kicking), baseball (throwing and catching), hockey (stick handling), basketball (dribbling and shooting)
- perform physical fitness testing, shuttle run, push-ups, sit-ups, sprinting and distance running
- learn team building exercises
- learn cooperative games for team work

MATERIALS

- outside play area covered with Field Turf
- outdoor basketball court, indoor basketball court, and playground
- multicolored disks and cones
- rubber dots and bases
- multicolored pinnies
- basketballs, soccer balls, floor hockey sticks, playground balls, tennis balls,
- wiffle balls, etc.
- cd player

INSTRUCTION

Students in grades 3-5 come to physical education twice a week for 40 minutes and work with the physical education teacher. The first five minutes of the class are spent in warm-up lines with monthly leaders leading the warm-up. Students gather to listen to the instructions and demonstrations. Class is ended with a 2-3 minute cooling down and review.