



Eighth Grade Curriculum Packet (Ohio)

NHA Curriculum

NHA has invested significant resources studying state and national standards, and learning about organizations such as ACT to determine what students need to understand in order to be on the track for college before they enter high school. Our custom-built curriculum has been designed backward from eighth grade to kindergarten to ensure that each child learns the concepts, strategies, and skills necessary to be on track for college, starting with their first year of school.

How Does It Work?

Teachers plan each lesson around specific objectives from the NHA Curriculum and help students understand what those objectives mean. Lessons are planned with very specific goals in mind, goals which are made clear to students. Knowing the end goal helps teachers plan carefully, which, in turn, helps students effectively connect with their learning.

How Will We Know They Have Learned?

Teachers use the information-gathering process known as formative assessment to determine what adjustments need to be made in the learning process in order to challenge each child to achieve. The formative assessment process gives teachers the detailed information they need to understand where each student is in their level of understanding, which is most critical factor for their continued learning. Students need regular feedback to know how they are performing and what they can do to reach their goals.

Report Cards

Report cards will look very different this year. They begin with a one-page summary of student performance in each content area. They also contain several pages of details about each target learning area (called Measurement Topics) and personalized graphs that give a visual representation of each student's academic growth for every Measurement Topic studied in that quarter. Personalized notes for each Measurement Topic will give parents more useful information than ever before

Challenging Each Child to Achieve...

NHA ELA Exemplar: Reading Grade Eight

Measurement Topic: Fluency and Vocabulary Development

The student will apply reading skills and strategies to recognize and comprehend individual words, phrases, sentences, and to read texts fluently

- Describe how historical events contribute to the evolution of the English Language (e.g., raccoon, opossum, canoe, barbeque {Native American}; bread basket, greenbacks {Civil War}; mustang, canyon, ranch {Spanish}; fax, modem, computer {technology}; vaccine, airplane, telephone {Industrial Revolution})
- Decode words, phrases and statements
- Use reference materials to determine word meaning (dictionaries, thesauruses, glossaries, foreign language dictionaries)
- Read eighth grade-level texts fluently, with appropriate pacing, voice, inflection, and intonation
- Analyze idioms, analogies, metaphors, and similes to infer literal and figurative meaning of phrases
- Extend vocabulary through reading and explicit instruction, including words from different content areas

Measurement Topic: Comprehension

The student will apply a range of reading and comprehension skills and strategies to construct meaning from a variety of texts, both fiction and nonfiction

- Apply comprehension strategies before, during, and after reading
- Identify the author's purpose, (e.g., to persuade, to inform, to entertain, to describe, or to evaluate), viewpoint, and intended audience and match it to personal reading purpose
- Determine how a work of literature reflects the attitudes or beliefs of its author

Measurement Topic: Expository/Informational Text

The student will apply a range of reading skills to read and comprehend informational text

- Analyze common textual features
- Analyze informational text
- Compare and contrast informational text
- Process information in text
- Identify and analyze a Moral Focus theme in a text and relate it to personal and societal issues

Measurement Topic: Literary Response and Analysis

The student will apply a range of reading skills and strategies to read from a wide variety of literary genres to make text-to-text, text-to-self, and text-to-world connections

- Analyze characteristics of literary forms and genres
- Analyze characteristics of major and minor elements of fiction
- Analyze characteristics of major and minor elements at work in poetry
- Identify and analyze central ideas and recurring themes within and across texts and relate them to personal and societal issues

NHA Exemplar: Writing

Measurement Topic: Audience and Purpose

The student will demonstrate an understanding of audience and purpose in writing

- Maintain a varied portfolio
- Discriminate among possible purposes and combining purposes if necessary or effective (e.g., writing an composition that both inspires and entertains)
- Discriminate among multiple possible audiences and select the most useful (e.g., an essay about the environment aimed at young parents concerned about their child's future)

Measurement Topic: Drafting and Revising

The student will draft, revise, edit, and publish writing using the writing process

- Apply prewriting strategies
- Review and revise writing
- Use available technology to write, edit, and revise compositions (e.g., produce final drafts that meet established criteria for class assignments, i.e., margins, font size, sentence spacing in paragraphs)

Measurement Topic: Writing Applications

The student will use different types of writing to communicate ideas, concepts, emotions, and descriptions

- Write biographical and autobiographical sketches
- Write narratives
- Write responses to literature
- Write expository/persuasive compositions
- Write personal and business correspondence and technical documents
- Write narrative (personal or literary), expository, or persuasive compositions that incorporate a Moral Focus theme, following all the conventions of the selected formats

Measurement Topic: Research and Information Organization

The student will employ appropriate methods and resources to research and report on an inquiry topic

- Collect, analyze, and represent data from surveys
- Form and defend a hypothesis about a research topic
- Use interviewing techniques (thought-provoking questions, flexible questions) to gather information
- Write a research paper about a notable person of history or science, making connections to one or more of the Moral Focus themes (See Science and Social Studies Objectives for list)

NHA Exemplar: Language Usage

Measurement Topic: Spelling and Language Mechanics

The student will apply the conventions of spelling, punctuation, and capitalization in their own writing

- Spell grade-appropriate words
- Use punctuation

Measurement Topic: Language Conventions

The student will apply the conventions of grammar in their own writing and while speaking

- Analyze and evaluate different parts of speech
- Exemplify effective use of voice
- Demonstrate use of all tense forms
- Vary sentence forms in writing
- Identify and use infinitives, gerunds, participles, and modifiers
- Use parallelism (consistent elements of grammar when compiling a list) in all writing to present items in a series and items juxtaposed for emphasis

NHA Exemplar: Speaking, Listening, and Viewing

Measurement Topic: Speaking Applications

The student will speak clearly and concisely for a variety of purposes and audiences, using appropriate eye contact, volume, gestures, and pacing

- Participate and contribute in discussions (e.g., whole-class seminars, literature circles, work groups, panel discussions, mock trials)
- Create and deliver oral presentations:
- Recite poems (four to six stanzas), sections of published speeches, and dramatic soliloquies using voice modulation, tone, and gestures expressively
- Employ appropriate verbal and non-verbal techniques for oral presentations
- Modify oral presentations based on verbal and non-verbal feedback from the audience (e.g., pacing, tone of voice, details, regaining interest by using humor)

Measurement Topic: Listening Comprehension

The student will apply critical listening and responding skills in order to evaluate, summarize, draw conclusions, make inferences, and gain information

- Critique a speaker's presentation
- Analyze the techniques speakers use to communicate a message (e.g., persuasive techniques, effect of word choice, use of slanted or biased material, emotional appeals)
- Recognize the way in which language differs across a variety of social situations (e.g., formal and informal speeches, use of jargon by sports or political commentators, use of slang among peers)

Measurement Topic: Analysis and Evaluation of Media

The student will apply critical skills in order to evaluate and analyze media

- Analyze and evaluate the persuasive techniques used in presentations and media (e.g., bandwagon, glittering generalities, emotional word repetition, bait and switch, testimonial, images, music)
- Analyze and evaluate communication in media
- Interpret how the type of media affects the coverage of events or issues (e.g., how same event is covered by radio, television, and newspaper; how each medium shapes a point of view; how the limitations and advantages of medium affect coverage)
- Analyze basic influences on media messages and images (e.g., historical events, place in which they were made, laws that govern mass media, target audience, financial sponsorship, cause and effect between media and public opinion)

NHA Math Exemplar: Number Sense and Operations Grade Eight

Measurement Topic: Number Sense and Number Systems

The student will build an understanding of the representations, models, and connections between real numbers

- Read, write, compare, order, and plot real numbers:
- Classify numbers within the real number system (e.g., natural number, whole number, integer, rational number, irrational number)

Measurement Topic: Operations, Computation, and Estimation

The student will understand the properties and characteristics of real numbers and their application to computation. Students become fluent in applied computations and will build flexibility by utilizing a variety of computational methods, including mental calculations, estimation, and paper-and-pencil calculations

- Calculate and estimate the square root of whole numbers (e.g., $\sqrt{152}$ is between 12 and 13)
- Apply the algebraic order of operations and properties of real numbers (Identity, Inverse, Zero, Commutative, Associative, Distributive) to simplify expressions and perform computations
- Perform computations involving integer exponents, radicals, percents, and weighted averages
- Use estimation strategies and evaluate their usefulness
- Use mental arithmetic to compute with common fractions, decimals, powers, and percents
- Add, subtract, multiply, and divide numbers written in scientific notation

NHA Math Exemplar: Algebra and Functions

Measurement Topic: Functions and Equations

The student will understand and use variables and algebraic expressions. They will write and solve equations and functions, and use formulas to solve problems and describe patterns

- Write, simplify, and evaluate algebraic expressions, linear equations, and inequalities
- Solve problems involving monomials, binomials, and polynomials
- Analyze and use methods to solve quadratic equations
- Analyze types of changes in mathematical relationships (linear vs. nonlinear, continuous vs. discrete, direct vs. inverse variation)
- Analyze functions and patterns
- Recognize and apply special binomial products: $(a + b)^2 = a^2 + 2ab + b^2$; $(a - b)^2 = a^2 - 2ab + b^2$; $(a + b)(a - b) = a^2 - b^2$

Measurement Topic: Algebraic Representations and Mathematical Models

The student will write equations and functions, represent them on the coordinate plane, and describe the characteristics of the graphs

- Graph linear functions:
- Graph nonlinear functions:
- Graph quadratic functions and use the graph to locate the roots (solutions)
- Graph and solve linear systems and inequalities

NHA Math Exemplar: Geometry

Measurement Topic: Lines, Angles, and Geometric Objects

The student will analyze characteristics and properties of two- and three-dimensional shapes and develop mathematical arguments about geometric relationships

- Use the Pythagorean Theorem and its converse in a variety of contexts (to find missing lengths, distances between points in the coordinate plane, solve perimeter area, volume and surface area problems)
- Sketch two-dimensional representations of three-dimensional objects (orthogonal views (top, front, side), picture views (projective, isometric), nets)

Measurement Topic: Transformations, Congruency, and Similarity

The student will apply transformations, use symmetry to analyze mathematical situations, and use visualization, spatial reasoning, and geometric modeling to solve problems

- Draw a variety of transformations of figures (dilation, translations, reflection, rotation) and determine the properties that remain fixed

NHA Math Exemplar: Measurement

Measurement Topic: Measurement Systems

The student will apply appropriate techniques, tools, and formulas to estimate and measure

- Apply and use the concepts of indirect measurement (e.g., similarity, proportions, estimation)
- Create and interpret scale drawings
- Convert between and within measurement systems (e.g., miles per hour to feet per second, ton to kilogram)
- Select and apply appropriate units and tools to measure and estimate

Measurement Topic: Perimeter, Area, and Volume

The student will apply appropriate techniques, tools, and formulas to estimate and measure perimeter, area, and volume

- Find the perimeter/circumference and area regular and irregular two-dimensional shapes
- Find the surface area and volume of three-dimensional figures
- Analyze the effect of scale factor k on the measurement of similar polygons (areas are related by a factor of k^2 , surface areas are related by a factor of k^2 , volume is related by a factor of k^3)

NHA Math Exemplar: Data Analysis and Probability

Measurement Topic: Data Organization and Interpretation

The student will formulate questions that can be addressed with data and collect, organize, display, and interpret relevant data to find answers. They will select and use appropriate statistical methods to analyze data, as well as develop and evaluate inferences and predictions that are based on data

- Organize, display, and interpret data using tables, graphs (line, circle, bar, histogram) and plots (stem-and-leaf, box-and-whisker, scatter)
- Compare two sets of data using measures of central tendency (mean, median, mode) and measures of variation (range, quartile ranges)
- Approximate a line of best fit for linear data distributions
- Construct and communicate convincing arguments based on analysis of data and interpretation of graphs

Measurement Topic: Probability**The student will understand and apply basic concepts of probability**

- Determine the probability of complementary events
- Determine the probability of independent and dependent events
- Use the Basic Counting Principle to find the number of possible arrangements of several objects

NHA Math Exemplar: Problem Solving**Measurement Topic: Strategies and Reasoning****The students will apply the problem solving process by understanding problems, choosing and employing strategies to solve problems, monitoring and reflecting on the process of mathematical problem solving, justifying solutions, and extending the problem**

- Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing and prioritizing information, and observing patterns
- Select and apply appropriate strategies to solve problems individually or as a group (e.g., modeling with pictures or manipulatives, breaking into simpler parts, solving a simpler problem, work backwards, trial and error, counterexamples, proportionality)
- Express solutions clearly and logically and determine whether an approximate or exact answer is appropriate:
- Analyze different problem solving methods:
- Make and test mathematical conjectures using inductive and deductive reasoning

Measurement Topic: Validity of Results**The students will calculate and verify solutions, and justify the process used to solve the problem**

- Make precise calculations and evaluate the reasonableness of the solution in the context of the problem
- Explain the reasoning used to solve a problem (what you did and why you chose to do it that way)
- Use estimation to verify the reasonableness of calculated results

Ohio Science Grade Eight

Introduction to Science

The Nature of Science: Scientific Knowledge

- Analyze similar investigations that yield different results to determine the cause of the difference and develop a plan to eliminate the variables
- Trace the development of an idea to a scientific theory

The Nature of Science: Scientific Inquiry- The Scientific Method

- Propose questions and hypotheses that can be studied through scientific investigations and distinguish them from questions and hypothesis that cannot be examined scientifically
- Explain why only one variable (e.g., independent, dependent, control) can be manipulated at a time
- Describe why questioning, response to criticism, replication, accurate record keeping, and open communication are integral to the process of science

The Nature of Science: Scientific Inquiry- Data Collection and Analysis

- Use appropriate tools, technologies and metric measurements to gather, analyze, and interpret data and report results
- Organize, display, and interpret scientific data in tables, graphs (e.g. line, circle, bar, histogram) and plots (e.g. stem-and-leaf, box-and-whisker, scatter)
- Interpret and evaluate tables, charts, and graphs produced by others
- Cite evidence from tables, charts, and/or graphs in making arguments and claims in oral and written reports
- Describe basic safety procedures in science such as recognizing potential hazards, cautiously manipulating materials and equipment and conducting appropriate procedures

The Nature of Science: Scientific Enterprise- Science and Society

- Describe the diverse nature of science and scientists past and present
- Describe ways in which science and society influence one another

The Nature of Science: Common Themes in Science

- Analyze the parts, subsystems and interactions of a system
- Measure and graph change over time and analyze the results to determine patterns and trends or predict events
- Compare and contrast the properties of objects as they change in scale

Species Over Time

The Living Environment: Plant and Animal Adaptations

- Analyze the inherited and learned structures, behavior and physiology of organisms that contribute to survival in their particular environment

The Living Environment: Genetics and Heredity

- Explain the impact of both sexual and asexual reproduction on the spread of traits that are detrimental or beneficial for the survival of an organism
- Analyze the process of natural selection and evaluate evidence of it as a mechanism that leads to diversity of species over time

The Living Environment: Fossils and Extinction

- Describe how fossils provide evidence of the appearance, diversification, and extinction of organisms from the past

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Germ Theory

The Living Environment: Germ Theory

- Describe the development of the germ theory, including some key figures in the development and thoughts on illnesses prior to the theory
- Describe the effect of germ theory on current medical practices
- Describe the effects (including positive) that viruses, bacteria, fungi and parasites have on normal body functions

The Nature of Science: Scientific Knowledge

- Trace the development of an idea to a scientific theory

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Motion and Forces

Physical Science: Forces Effect on Motion

- Explain the effects of contact and non-contact forces on objects using Newton's First Law
- Explain the relationship between the mass of the object, the size of the net force acting on the object, and the resulting change in motion of the object in real world examples of motion

Physical Science: Measuring Motion

- Analyze the motion of objects in terms of direction and changes in motion
- Describe, measure, and graph quantities that characterize moving objects such as direction, speed, velocity, and acceleration

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Simple Machines

Physical Science: Simple Machines

- Describe how simple machines manipulate the force needed to do work
- Analyze simple machines for mechanical advantage and efficiency

The Nature of Science: Scientific Enterprise- Science and Society

- Describe the diverse nature of science and scientists past and present

The Nature of Science: Common Themes in Science

- Analyze the parts, subsystems and interactions of a system

Geology

Earth and Space Science: The Changing Earth

- Analyze and describe Earth's surface features using maps
- Compare the physical properties of the interior layers of Earth
- Describe agents of physical and chemical weathering and explain their connection to the formation of soil and sediment
- Analyze how physical/mechanical weathering (e.g. waves, wind, water, and glacier movements) shape and reshape Earth's surface over time
- Describe major geological events (mountain building, earthquakes, volcanic eruptions) as processes resulting from heat flow and movement of material within Earth
- Describe the three primary types of plate boundaries and the landforms associated with each
- Describe ways scientists learn about Earth's geologic history (e.g., seismographs, ground penetrating radar, core drillers, observations)

Earth and Space Science: Earth Materials and Responsible Use

- Analyze observable and measurable soil properties to predict soil quality
- Classify sedimentary, igneous and metamorphic rocks

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Earth in Space

Earth and Space Science: Characteristics of Objects in Space

- Compare and contrast the major characteristics of bodies in the Solar System
- Compare the size and distance of objects within systems in the universe using either astronomical units or light years, depending on the distance
- Describe the appearance and apparent motion of groups of stars in the night sky relative to Earth and how various cultures have understood and used them for navigation and calendars
- Describe basic characteristics of the Milky Way and recognize it as one galaxy among billions in the universe

Earth and Space Science: Interaction of the Sun, Earth, and Moon

- Analyze and describe the role of gravity in celestial phenomena
- Compare and contrast the ideas of Ptolemy, Aristotle, Copernicus, and Galileo regarding Earth's position and motion in space
- Explain how the rotation and revolution of Earth and the tilt of Earth on its axis cause observed phenomena on Earth such as days/nights and seasons
- Correlate the pattern of change in the location and phase of the Moon with the actual motion of the Moon around Earth
- Describe how the relative positions of the Sun, Earth, and Moon can result in solar and lunar eclipses
- Explain tides as they relate to the position and gravitational force of the Sun and Moon

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Earth Systems

Earth and Space Science: Earth Systems

- Compare the Earth system to other systems of parts that make up a whole
- Compare and contrast different types of systems and identify what makes Earth an open mechanistic system
- Analyze various events on Earth and describe the impact they have across multiple spheres of the Earth

The Nature of Science: Scientific Knowledge

- Analyze similar investigations that yield different results to determine the cause of the difference and develop a plan to eliminate the variables

The Nature of Science: Scientific Inquiry- The Scientific Method

- Propose questions and hypotheses that can be studied through scientific investigations and distinguish them from questions and hypothesis that cannot be examined scientifically
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Ohio Social Studies Grade Eight

UNIT: Early America- An Overview

US History: Significant Events, Individuals, & Contributions

- Analyze how early exploration and governmental policies affected Native Americans in the United States

People, Culture, & Civilizations: Historical Societies & Lifestyles

- Explain how political beliefs and government policies influenced society in the United States
- Describe how geographic and economic conditions led to changes in society (colonization, immigration, slavery)

UNIT: The American Revolutionary Era

US History: Significant Events, Individuals, & Contributions

- Evaluate the impact of important individuals' contributions to United States history
- Evaluate how different attitudes, governmental policies, and individual opinions influenced the American Revolution
- Explain the impact of early governmental policies on modern society

US History: Historical Conflict

- Explain causes and effects of the American Revolution and the impact of these events on United States history
- Evaluate how strengths and weaknesses of participants in conflict in United States history influence the outcome of the conflict
- Explain the impact of the outcome of conflict in United States history on modern society

UNIT: The Constitutional Era

Civics & Government: Government Systems

- Explain how the strengths and weaknesses of early forms of government and influential writings led to the formation of the current US Constitution
- Defend each side of the major debates proposed at the Constitutional Convention and in the process of ratifying the Constitution
- Determine current examples of the function of the federal government as outlined in the Constitution (real-life applications of the 3 Branches of Government and the Bill of Rights)

UNIT: Life in the New Nation

US History: Significant Events, Individuals, & Contributions

- Explain the impact of early governmental policies on modern society
- Compare and contrast the political process (elections, political parties) from the 1700 and 1800s to today

US History: Historical Conflict

- Explain the impact of the outcome of conflict in United States history on modern society

People, Culture, & Civilizations: Historical Societies & Lifestyles

- Explain how political beliefs and government policies influenced society in the United States

UNIT: Westward Expansion

US History: Significant Events, Individuals, & Contributions

- Explain the government's reasons for land acquisition in the 1800s
- Analyze how early exploration and governmental policies affected Native Americans in the United States
- Explain the impact of early governmental policies on modern society

US History: Historical Conflict

- Explain the impact of the outcome of conflict in United States history on modern society
- Describe how land acquisition lead to conflict in United States history

UNIT: 19th Century Culture & Reform

People, Culture, & Civilizations: Historical Societies & Lifestyles

- Explain how political beliefs and government policies influenced society in the United States
- Evaluate the success of reform movements in regards to their impact on modern society

UNIT: The Civil War

US History: Significant Events, Individuals, & Contributions

- Evaluate the impact of important individuals' contributions to United States history
- Explain the impact of early governmental policies on modern society
- Evaluate how different attitudes, governmental policies, and individual opinions influenced the Civil War and African-American society in the United States

US History: Historical Conflict

- Evaluate how strengths and weaknesses of participants in conflict in United States history influence the outcome of the conflict
- Explain the impact of the outcome of conflict in United States history on modern society

People, Culture, & Civilizations: Historical Societies & Lifestyles

- Explain how political beliefs and government policies influenced society in the United States
- Describe how geographic and economic conditions led to changes in society (colonization, immigration, slavery)

UNIT: Late 19th Century to Early 20th Century

US History: Significant Events, Individuals, & Contributions

- Compare and contrast industrial development in the late-1800s/early-1900s to modern technological advancement

US History: Historical Conflict

- Explain the impact of the outcome of conflict in United States history on modern society
- Describe how land acquisition lead to conflict in United States history

Civics & Government: Citizenship-Awareness, Rights, & Responsibilities

- Determining current examples of obtaining citizenship (real-life applications of the citizenship process)
- Evaluate the importance of knowing one's civil and legal responsibilities when entering a new country

People, Culture, & Civilizations: Historical Societies & Lifestyles

- Describe how the growth of technology changed life in the United States in the 19th century
- Describe how geographic and economic conditions led to changes in society (colonization, immigration, slavery)

NHA Visual Arts Exemplar: Art Expression

The student will develop and expand their knowledge/skills in the visual arts through the use of media, techniques, and processes to express their own ideas creatively in artwork. The student will analyze, assess, judge merit and derive meaning from works of art, including their own, according to the elements of art, the principles of design, and aesthetic qualities.

Grade Eight

NHA Objectives

Measurement Topic: Art Creation

- Create artwork by selecting media, techniques, and processes to produce desired effects (see Appendix)
- Use art materials safely and appropriately; follow procedures to set up and clean up
- Demonstrate quality craftsmanship
- Use problem solving to produce desired visual effects in artwork
- Use subjects, themes, images, symbols, and art elements and principles to express meaning in artwork

Measurement Topic: Elements and Principles of Art and Design

- Create artwork using multiple-point perspective to give the illusion of depth
- Use organizational structures as a way to communicate ideas and express meaning
- Create multiple types of 3-D art using various media and processes
- Demonstrate form, shape, line, and proportion when creating natural forms (human, animal, plant, etc.)
- Use techniques such as distortion, exaggeration, and optical illusion
- Identify and use all the elements of art and principles of design (focus on unity, space, repetition, proportion, variety)

Measurement Topic: Critical Analysis

- Analyze artworks for elements of art and design principles, art techniques, and media and describe using appropriate vocabulary
- Analyze media, techniques, and processes to determine what makes them effective or ineffective
- Interpret meanings derived from the images, symbols, techniques, art elements, or design principles used in artwork
- Generate questions about artwork; provide opinions, personal responses, and possible answers to questions about artwork
- Evaluate their own artwork and the artwork of others for elements of art, principles of design, expressive qualities, quality of

techniques, and aesthetics

NHA Visual Arts Exemplar: Art Connections

The student will demonstrate knowledge of artists, art history, and world cultures by investigating works of art from different times and places. The student will apply their knowledge of visual arts to other disciplines and everyday life

Grade Eight

NHA Objectives

Measurement Topic: History, Culture, and Society

- Identify individual artist's style, including materials, design, methods, and subject matter
- Explain how political, social, geographical, and cultural factors influence how and what artists create
- Compare characteristics of artwork within a particular historical period or style with ideas, issues, or themes of the times
- Demonstrate knowledge of art history by placing artists, famous artworks, and art movements in chronological order

Measurement Topic: Real World Connections

- Identify examples of visual art as a part of own culture (advertising, political cartoons, product design, graphic novels, comic books, video games)
- Recognize and describe occupations associated with art (art therapist, video game designer, computer art and design, illustrator, set designer)
- Describe the types of skills and education required for art-related careers

Measurement Topic: Connections to Other Disciplines

- **Identify art concepts in other subject areas (observation and contour drawing in social studies and science; rhythm and pattern in math, music, movement, and language arts; multiple 2-D views of 3-D object, nets of 3-D objects, transformations, scale drawings, use of measurement tools math; engineering design, light, and motion in science; and graphic display images of data in science and math; use visual media to enhance communication in other content areas; connections to literature in ELA)**

Grade Eight Social Studies Topics: Early America, American Revolution, Westward Expansion, 19th Century America, Civil War, Late 19th to Early 20th Century America

NHA Music Exemplar: Music Expression

The student will develop knowledge and a variety of skills in order to perform, create, read, and describe musical pieces through knowledge of basic musical concepts. Students will engage in both group and individual music-related tasks. They will use this knowledge to analyze, assess, judge merit and determine meaning from music, including their own.

Grade Eight

NHA Objectives

Measurement Topic: Music Composition and Performance

- Sing or play a musical piece using expression
- Sing or play a musical piece from memory
- Identify I, IV, and V chord patterns

Measurement Topic: Music Theory

- Identify and apply 2/4, 3/4, 4/4, 6/8, and alla breve meters
- Apply musical terms for dynamics, tempo, and articulation

Measurement Topic: Analysis of Music

- Identify characteristics of effective performance
- Define characteristics of effective musical works

NHA Music Exemplar: Music Awareness

The student will recognize the historical, cultural and social impact of music. They will be able to critically analyze and critique a variety of music from different eras, genres, and sources. Student will be exposed to a variety of music and determine the impact it had both locally and globally.

NHA Objectives

Measurement Topic: History, Culture, and Society

- Identify musicians within American genres (e.g.; jazz, blues, hip hop, country, etc.)
- Identify the origins of American musical genres

Measurement Topic: Real World Connections

- Identify career opportunities in music within other cultures

Measurement Topic: Integrated Studies

- Compare the elements of music and art

NHA Physical Education Exemplar: Movement and Concept Development

Grade Eight

NHA Objectives

Measurement Topic: Movement and Movement Patterns

- Combine and refine fundamental techniques in complex physical activities and games
- Create and perform rhythmic movement patterns that demonstrate steady beat, tempo and phrasing of music

Measurement Topic: Movement Concepts

- Correct unsafe situations related to participation in physical activities
- Demonstrate and describe variations of movement skills that occur in specific sports (locomotor, non-locomotor, manipulative)
- Describe basic physics principles that are utilized in specific sports (e.g., action-reaction, trajectory, linear velocity)

NHA Physical Education Exemplar: Physical Fitness and Wellness

Grade Eight

NHA Objectives

Measurement Topic: Personal Fitness

- Assess personal fitness levels and develop a plan to maintain or improve all fitness components
- Evaluate progress on fitness components based on personal plan

Measurement Topic: Health Concepts for Life

- Evaluate personal diet choices and predict future health based on current practices (i.e. in relation to the food pyramid, recommended portions, and intake of essential nutrients)
- Evaluate personal water intake (i.e. in relation to symptoms of thirst, dehydration, and physical performance)
- Analyze the negative impact that alcohol, tobacco, and other drugs have on the user, friends, family members, and community members
- Evaluate a variety of stress management techniques for effectiveness

Measurement Topic: Teamwork and Sportsmanship

- Exhibit winning and losing gracefully in physical activity context
- Demonstrate respect for and encouragement of others while participating in physical activity context
- Analyze how “fair play” contributes to successful group and team experiences in physical activity context (regardless of winning or losing)