

Fifth Grade Curriculum Packet (Michigan)

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.

Monitoring Student Progress

The way we assess and report your child's progress is as unique as the curriculum we teach them. It is a fundamental shift from traditional percentages and overall letter grades of the past. Through the NHA Scoring Scales, teachers can determine with greater accuracy how your child is doing towards mastering grade-level material and adjust their instruction to better help your child learn and grow.

The NHA Scoring Scales

The NHA Scoring Scales provide detailed information about what the teacher is looking for while assessing an objective on a scale of 0-4.0. This is where the real difference lies. You may remember from past school experiences that a 4.0 meant an "A". In the NHA Scoring Scales, a 4.0 does not equal an "A" but is defined as going beyond what was taught in class. By our definition, the 3.0 level means that your child is achieving at grade-level and mastering expectations. The NHA Scoring Scales take the guesswork out of where the students are and need to be and provide the essential information teachers need to create lessons, assignments, and assessments that reflect true grade-level objectives. The teacher can use that information to plan future instruction; the student can use that information to understand and adjust her learning; and parents can use that information to get an overall picture of their student's progress towards the learning goals. Having a specific target and being able to show a student's progress toward that target is what makes the NHA Curriculum and Scoring Scales a powerful tool for teachers, students, parents, and caregivers.

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.

NHA ELA Exemplar: Reading Grade Five

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

- Locate synonyms, antonyms, homophones, homographs, and homonyms in text:
- Use less common roots and word parts to analyze the meanings of complex words:
- Use context clues to define the meaning of unfamiliar words:
- Use reference materials to find the meaning, pronunciation, and derivatives of unfamiliar words (e.g., glossary, dictionary, thesaurus, online sources)
- Read aloud fifth grade-level texts fluently, with appropriate pacing, changes in voice, and expression
- Automatically recognize grade-level sight and frequently used words, steadily increasing the number of words read fluently throughout the year
- Extend vocabulary through reading and explicit instruction, including technical words and words from math, science, and social studies

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:
- Analyze symbols and themes used in text:
- Determine the author's point of view or perspective, with evidence from one or more texts (e.g., cultural, social, ethnic, historical)
- Read both student- and teacher-selected texts from a variety of genres, forms, and authors; select appropriate texts for specific purposes (e.g., personal interest, knowledge of authors and genres, text difficulty, recommendations from others) from classroom, school, and public libraries

Measurement Topic: Expository/Informational Text

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

- Use common textual features to locate information (e.g., chapter titles, headings, subheadings, indices, typeface, glossaries, table of contents, timelines, graphs, charts, and diagrams)
- Draw inferences, conclusions, and generalizations and provide supporting evidence from the text:
- Locate information in a variety of consumer, workplace, and public documents (e.g., labels, schedules, newspapers, field guides, brochures)
- 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 basic characteristics of literary forms and genres (e.g., rhyming, blank verse, myths, short stories, novellas, science fiction, tall tales, historical fiction, mysteries):
- Analyze basic characteristics of major elements of fiction:
- Analyze how meaning is conveyed in poetry (e.g., personification, hyperbole, metaphor, symbols, idioms, diction):
- Analyze common themes that are stated or implied (e.g., friendship, courage, survival)
- Respond to a story related to a Moral Focus theme by making text-to-self and text-to-world connections

NHA Exemplar: Writing

Measurement Topic: Audience and Purpose

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

- Maintain a varied basic portfolio:

Measurement Topic: Drafting and Revising

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

- Apply basic prewriting strategies to plan and organize writing (e.g., brainstorming; using graphic organizers such as story maps, Venn diagrams, and webs; note-taking):
- Reread and revise writing:
- Use a computer to draft, edit, revise, and publish writing, using tools such as spell check, pull-down menus, the thesaurus, formatting, and print

Measurement Topic: Writing Applications

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

- Write fictional or nonfictional narratives (e.g., poetry, mystery, tall tale, short story, historical fiction, plays):
- Write responses to literature:
- Write expository/persuasive compositions:
- Make basic distinctions between formal and informal writing:
- Write narrative (personal or literary), expository, or persuasive compositions that incorporate a Moral Focus theme, following all the conventions of the selected format

Measurement Topic: Research and Information Organization

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

- Form and defend a basic hypothesis about a research topic:
- Write a research paper about a notable person of history or science, making connections to one or more of the Moral Focus themes

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 high-frequency and grade-appropriate words:
- Use common strategies to spell different words:
- Use punctuation:
- Use capitalization (e.g., names of companies, schools and institutions, departments of government, monuments, and works of art)
- Use text conventions for titles of various works (e.g., italics, underlining, or quotation marks for various works, including books, magazines, or films)
- Write legibly with cursive writing

Measurement Topic: Language Conventions

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

- Use complex sentences (complete sentences with one main clause and more than one subordinate clause that exhibit subject-verb agreement)
- Use all major tense forms (sentences that use the simple, perfect, and progressive forms of past, present, and future verb tense)
- Use phrases and clauses:
- Correct dangling modifiers

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 (small or large group), making eye contact with the speaker, waiting for an appropriate time and then raising a hand to ask a question, and volunteering to answer a question posed to the entire group regarding the topic under discussion
- Create and deliver oral presentations for a variety of purposes and audiences (e.g., create a focus; select an organizational structure; include an introduction and conclusion; use relevant information and descriptive details; use memory aids such as notes or outlines; incorporate visual aids or props when appropriate; use sources for information):
- Recite brief poems, dramatic narratives, and soliloquies using clear diction, timing, volume, phrasing, and expression
- Vary the formality of language according to the audience and purpose for speaking (e.g., oral presentations, persuasive presentations, class discussions, informal discussions, speaking to people in the community, family members, and friends)

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

- Take notes or use graphic organizers during oral presentations, lectures, or whole class instruction
- Identify and/or infer the main idea and recall supporting details
- Evaluate and follow the steps of a procedure (e.g., execute multi-step procedures; identify and describe missing, out of sequence, or unclear steps in a procedure)
- Evaluate the basic qualities of a speaker:
- Recognize that language reflects different regions, cultures, social groups, and historical eras (e.g., sayings, expressions, pronunciations, slang)

Measurement Topic: Analysis and Evaluation of Media

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

- Distinguish between fact and opinion in presentations and media
- Analyze basic persuasive techniques in media (e.g., promises, dares, flattery, generalities, exaggeration, pressure from peers, television advertising, faulty reasoning)
- Analyze basic techniques used to communicate messages in visual media (e.g., images, sound effects, music, tone of voice)
- Analyze print and non-print media (e.g., how the media focuses attention on events or issues and influences peoples' opinions)

NHA Math Exemplar: Number Sense and Operations Grade Five

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 integers, decimals, and fractions:
- Express fractions (including improper fractions and mixed numbers) in simplest terms
- Explain different interpretations of fractions (parts of a whole, parts of a set, division of whole numbers by whole numbers) and ratios (part-to-part, part-to-whole) using models and visual representations
- Distinguish between repeating and terminating decimals
- Find factors and multiples of whole numbers:
Round whole numbers and decimals to a given place value

Measurement Topic: Addition and Subtraction

The student will become fluent in the addition and subtraction of real numbers

- Add and subtract whole numbers and decimals (to any place value)
- Add and subtract integers using physical models, visual representations, and algorithms
- Add and subtract fractions with like and unlike denominators
- Add and subtract mixed numbers with like and unlike denominators using physical models, visual representations, and algorithms
- Write fractions (including improper fractions and mixed numbers) using common denominators (e.g., given $\frac{2}{3}$ and $\frac{4}{5}$, write as $\frac{10}{15}$ and $\frac{12}{15}$)

Measurement Topic: Multiplication and Division

The student will become fluent in the multiplication and division of real numbers

- Apply divisibility rules to determine if a number is divisible by 2, 3, 4, 5, 6, 9, or 10
- Multiply whole numbers, decimals, fractions, and mixed numbers:
- Divide whole numbers, decimals, and fractions:
- Multiply and divide decimals by 10s, 100s, and 1,000s (e.g., $.7 \div 100$)

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

- Apply basic properties of real numbers (Identity, Inverse, Zero, Commutative, Associate, Distributive)
- Apply algebraic order of operations to evaluate expression using parentheses
- Calculate and estimate the percent of various numbers (e.g., 15% of 30)
- Estimate sums and differences of fractions and decimals and products of whole numbers, decimals, fractions, and mixed numbers
- Use mental arithmetic to add, subtract, multiply, and divide whole numbers
- Represent percents as part of a hundred

NHA Math Exemplar: Algebra and Functions Grade Five

Measurement Topic: Basic Patterns

The student will analyze and create numeric and geometric patterns

- Create and describe numeric patterns (addition, subtraction, multiplication, division) using algebraic expressions, tables, and graphs

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

- Use letters to represent unknown quantities in equations, inequalities, and expressions
- Model and use Addition and Subtraction Properties of Equality
- Write and evaluate simple algebraic expressions in one or two variables
- Write and solve equations containing whole numbers, fractions, and decimals (e.g., $\frac{1}{4} + x = \frac{7}{12}$, $.5 \div z = .25$)

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

- Find and graph positive ordered pairs that fit a linear equation and draw the line they determine
- Graph inequalities on the number line (e.g., $x > 5$, $y \leq 2$)

NHA Math Exemplar: Geometry Grade Five

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

- Analyze and classify geometric figures
- Solve problems involving angles

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

- Analyze and draw similar shapes and relate similarity to ratios of corresponding sides
- Determine whether a figure exhibits reflection or rotation symmetry and draw lines of symmetry
- Analyze and predict transformations of figures:
- Identify congruent figures and justify decisions by referring to sides and angles

NHA Math Exemplar: Measurement Grade Five

Measurement Topic: Measurement Systems

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

- Convert within measurement systems (area, volume/capacity)
- Select and apply appropriate units and tools to measure and estimate length, weight/mass, and capacity using U.S. customary and metric units
- Read and interpret basic scale drawings

Measurement Topic: Time, Temperature, and Money

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

- Select and apply appropriate units and tools to measure and estimate time and temperature
- Multiply and divide money in decimal notation

Measurement Topic: Perimeter, Area, and Volume

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

- Find and estimate the perimeter/circumference of circles, triangles, quadrilaterals, and regular polygons
- Find and estimate the area of triangles, rectangles, parallelograms, and trapezoids using models and formulas
- Find and estimate the volume of rectangular prisms using unit cubes and formulas
- Find and estimate the area of irregular polygons and the surface area of rectangular prisms using models and formulas
- Analyze characteristics of perimeter, area, surface area, and volume:

NHA Math Exemplar: Data Analysis and Probability Grade Five

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

- Collect and organize data from a variety of sources (e.g., observations, surveys, experiments, newspapers)
- Construct and interpret simple circle graphs and histograms
- Compute the mean, median, mode, and range of a set of data and explain what each measure does and does not indicate about the set of data
- Select and use appropriate graphs (line graph, bar graph, pictograph, line plot, stem-and-leaf plot, circle graph, histogram)

Measurement Topic: Probability

The student will understand and apply basic concepts of probability

- Determine and compare experimental and theoretical probabilities of a simple experiment
- Use tree diagrams to list and explain all the possible outcomes of a given situation
- Make predictions based on experimental and theoretical probabilities

NHA Math Exemplar: Problem Solving Grade Five

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 individually or as a group by identifying relationships, distinguishing relevant from irrelevant 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)
- Express solutions clearly and logically and determining whether an approximate or exact answer is appropriate:
- Analyze basic problem solving methods:

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 and justify the reasoning and strategies used to solve a problem (what you did and why you chose to do it that way)

Michigan Science Grade Five

UNIT: Introduction to Science

The Nature of Science: Scientific Knowledge

- Compare the results of similar experiments and determine reasons for any inconsistencies
- Differentiate between observation and inference in scientific explanations
- Construct reasonable explanations supported by facts found in books or evidence from observations and/or investigations

The Nature of Science: Scientific Inquiry- The Scientific Method

Propose and test independent and dependent variables in a controlled experiment

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

- Safely use appropriate tools and simple equipment to gather scientific data and extend the senses
- Make accurate measurements with appropriate units (centimeters, meters, Celsius, Fahrenheit, grams, seconds, minutes)
- Communicate the results of investigations and describe the investigations in ways that enable others to repeat them
- Organize, display and interpret data from observations and investigations in simple bar graphs, line plots, line graphs, and/or stem-and-leaf plots

The Nature of Science: Scientific Enterprise- Science and Society

Identify scientists of various groups (i.e. gender, country of origin, socioeconomic status, age) and their contributions

The Nature of Science: Common Themes in Science

- Describe how the parts of a system work together
- Identify and measure things that change and describe the different ways they change
- Explain the role of models in studying objects, events, and processes
- Identify objects that are at the extremes in sizes, weights, ages, and speeds

UNIT: Technological Design

Engineering and Technology: Engineering

- Describe examples of mechanical systems that are designed to serve purposes similar to natural systems
- Design and construct something useful out of a variety of materials using a variety of tools
- Evaluate the usefulness of inventions and suggest ways that the product could be changed or improved
- Describe properties of materials that make them useful in design and construction

Engineering and Technology: Technology

Describe positive and negative effects of technology on the environment and society

UNIT: Body Systems

The Living Environment: Animal Body Structures and Functions

Describe the functions of human body systems and major organs of the body (e.g., heart, lungs, skin)

UNIT: Mixtures and Solutions

Physical Science: Mixtures and Solutions

- Determine the appropriate tools and processes needed to separate various mixtures
- Describe factors that influence saturation in a solution
- Describe the appropriate tools and senses needed to compare and contrast the concentration levels of various solutions

Physical Science: Chemical Changes

Classify reactions as chemical or not based on the presence of color change, odor, light or heat emission, and/or gas

UNIT: Simple Machines

Physical Science: Simple Machines

- Describe real world applications of simple machines at home and in school
- Explain how the amount of force needed to do work changes with the application of simple machines

UNIT: Weather and Water

Earth and Space Science: Weather and Climate

- Measure, record, and explain daily weather phenomena using the appropriate tools
- Correlate cloud types with general weather conditions
- Describe a variety of storm types, the weather conditions associated with each, and explain when they occur
- Compile and use weather data to determine climate trends
- Describe the effects geography can have on weather and climate

Earth and Space Science: Water on Earth

- Analyze the distribution, location, and state of water on Earth
- Describe the processes of infiltration, runoff, evaporation, condensation, and precipitation as they relate to movement of water in the water cycle

Michigan Social Studies Fifth Grade

UNIT: Geography

Geography: Maps & Globes

- Determine location and distance
- Interpret different types of maps and geographical representations

Geography: Physical Features

- Describe specific landforms and rivers of the United States

UNIT: Economics

Economics: Economic Concepts

- Describe consequences of competition on an economy (among producers & sellers, consumers & buyers)
- Describe the relationships of economic concepts in a competitive market

Economics: Resources

- Explain ways to improve human productivity and resources and the impact that would have on an economy
- Evaluate personal choices made with money (e.g., budgets, spending vs. saving, and credit)

Economics: Economies of the World

- Describe different economic systems and where they are practiced around the world
- Describe the economy of the United States

Economics: Economic Institutions

- Explain the role of banks in the economic system

UNIT: Native American Cultures

People, Cultures, and Civilizations: Historical Lifestyles & Societies

- Compare and contrast the way of life of various Native American tribes within the United States

UNIT: Early Exploration of North America

World History: Significant Events, Individuals, & Contributions

- Describe the explorers' influence on the conquered land (e.g. trade)
- Determine the reasons that motivated the explorers toward discovery
- Explain the impact of new technology on the voyages of the explorers

People, Cultures, and Civilizations: Historical Lifestyles & Societies

- Compare and contrast early English settlements in the United States with French and Spanish settlement

UNIT: Colonization

US History: Significant Events, Individuals, & Contributions

- Analyze contributions of colonial regions on modern society

People, Cultures, and Civilizations: Historical Lifestyles & Societies

- Explain how the way of life in the colonial regions (New England, Middle Atlantic, Southern Colonies) was influenced by social characteristics (families, class structure, religion, economies)
- Compare and contrast early English settlements in the United States with French and Spanish settlements

UNIT: The Revolutionary War

US History: Significant Events, Individuals, & Contributions

- Explain important events in the Revolutionary Era that led to the independence of the United States from Britain
- Analyze the impact of important individuals on the history of the United States

US History: Historical Conflict

- Compare and contrast the strengths and weaknesses of the American and British armies in the Revolutionary War
- Describe participants (groups of people, allies) in conflicts in United States history
- Describe the causes and effects of conflicts in United States history (reasons for wars, lasting impact of treaties)
- Describe important battles in the Revolutionary War

UNIT: The US Constitution & Government**US History: Current Events in the Context of History**

- Describe and explain current events facing the United States relating to government and civil rights
- Predict the impact that the current events will have on the future of the United States as well as the individual citizen

Civics & Government: Government Systems

- Explain the early forms of government in the United States
- Explain the impact of individual influence on the Constitutional Convention
- Compare and contrast the 3 Branches of Government and their functions
- Define each of the amendments in the Bill of Rights

UNIT: Westward Expansion & Growth**US History: Significant Events, Individuals, & Contributions**

- Analyze the impact of important individuals on the history of the United States
- Explain the concept "Manifest Destiny"

US History: Historical Conflict

- Describe participants (groups of people, allies) in conflicts in United States history
- Describe the causes and effects of conflicts in United States history (reasons for wars, lasting impact of treaties)

UNIT: Introduction to the Civil War**US History: Significant Events, Individuals, & Contributions**

- Analyze the impact of important individuals on the history of the United States
- Explain the causes and eventual effects of events leading to the Civil War

US History: Historical Conflict

- Describe important battles in the Civil War

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 Five

NHA Objectives

Measurement Topic: Art Creation

- Create artworks using a variety of materials (see Appendix)
- Use a variety of art techniques to produce works(see Appendix)
- Use art materials safely and appropriately; follow procedures to set up and clean up
- Demonstrate quality craftsmanship
- Create artwork to express emotions, and communicate ideas or messages
- Design and produce artwork using styles and techniques of different artists, and/or cultures past and present

Measurement Topic: Elements and Principles of Art and Design

- Use color characteristics in artwork (value {lightness or darkness}, hues, shades, tints, complementary colors, intermediate colors {tertiary}, contrast)
- Identify and use contrast, repetition, and variety in artwork
- Use perspective drawing (one point) and shading techniques to create dimensionality
- Apply art elements (line, shape, color, texture, form, and space) and art principles (variety, repetition, proportion, balance) to create artwork

Measurement Topic: Critical Analysis

- Describe artworks using appropriate vocabulary; focus on art elements and principles such as space, texture, repetition, proportion, value, types of media used to create the artwork, and type of work produced
- Analyze artworks and recognize the principle of unity in a composition
- Identify common themes, subject matter, and ideas expressed across multiple works from different time periods
- Compare size and position of objects in space and identify foreground, middle ground, background and details in 2D artwork
- Analyze their own artwork and the artwork of others for elements of art, expressive qualities, and quality of techniques

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 Five

NHA Objectives

Measurement Topic: History, Culture, and Society

- Describe the types of functional, narrative, or ceremonial artwork produced by different artists, times, and places (see list of possible topics below)
- Find similarities and differences between artwork from a variety of cultures, including cultures relevant to student's background
- Identify the influence of historic events on artists and their artwork

Measurement Topic: Real World Connections

- Identify the purpose of a variety of artworks found in the community (artistic expression, persuasive, narrative, functional, ceremonial)
- Identify artwork found in the community (architecture, posters, advertisements)
- Recognize and describe occupations associated with art (photographer, interior designer, fashion designer, animators)

Measurement Topic: Connections to Other Disciplines

- Identify art concepts in other subject areas (observation drawing in social studies and science; rhythm and pattern in math, music, movement, and language arts; symmetry, congruence, and transformation in math; and engineering design in science, math, and music; landscape and seascape painting in science and social studies; and clay in science and social studies)

Grade Five Social Studies Topics: Native American Cultures, American Colonies, Revolutionary Era, Westward Expansion, Civil War

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 Five

NHA Objectives

Measurement Topic: Music Composition and Performance

- Perform 2- and 3- part songs
- Improvise accompaniments on classroom instruments (e.g., mallet instruments, rhythm instruments, keyboards, etc.)
- Identify and perform intervals in major scales (eg., half/whole, step/skip, or 2nd/3rd)

Measurement Topic: Music Theory

- Identify and apply key signatures
- Read and notate a short melody
- Identify and apply meters
- Define and apply dynamic markings (e.g., forte, piano, decrescendo, crescendo)
- Identify and apply the musical symbol for *staccato*, *accent*, *formatta*, and repeat signs

Measurement Topic: Analysis of Music

- Distinguish between major and minor keys
- Identify the form of longer musical pieces
- Compare pieces in terms of tone and mood

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.

Grade Five

NHA Objectives

Measurement Topic: History, Culture, and Society

- Listen to music of other cultures and explore the role of music and musicians related to the cultures
- Identify instruments associated with world cultures (e.g; sitar, maracas, accordion)
- Analyze the roles that musicians play in the media

Measurement Topic: Real World Connections

- Report on a community musician
- Evaluate a live musical performance

Measurement Topic: Integrated Studies

- Interpret music using dance, art, or writing

NHA Physical Education Exemplar: Movement and Concept Development

Grade Five

NHA Objectives

Measurement Topic: Movement and Movement Patterns

- Demonstrate integration of locomotor, non-locomotor movements in complex patterns
- Demonstrate ability to manipulate objects to participate in games and activities
- Perform complex rhythmic skills alone and with a partner

Measurement Topic: Movement Concepts

- Explain the importance of safe movement techniques when performing individually or with others
- Recognize and describe critical elements of complex movement patterns that combine multiple skills
- Observe the performance of others and provide appropriate feedback to help others improve skills
- Perform varying strategies for offense and defense in basic games

NHA Physical Education Exemplar: Physical Fitness and Wellness

Grade Five

NHA Objectives

Measurement Topic: Personal Fitness

- Establish personal goals to achieve physical fitness levels in all fitness components
- Demonstrate appropriate levels of muscular strength and endurance for major muscle groups
- Perform exercise or activities that improve specific fitness components

Measurement Topic: Health Concepts for Life

- Explain how healthy food provides energy for physical activity
- Demonstrate adequate daily water intake
- Describe health benefits from abstaining from or stopping tobacco use
- Distinguish between signs of healthy stress and unhealthy stress

Measurement Topic: Teamwork and Sportsmanship

- Demonstrate appreciation of the accomplishments of all members in a group or team context
- Exhibit a positive attitude when learning a new skill in individual and group contexts
- Demonstrate willingness to resolve conflict when participating in groups or teams