

4

ENGLISH/LANGUAGE ARTS

The following pieces listed are used to teach 4th grade reading skills and reading comprehension, all of which correlate with North Carolina's 4th grade English/Language Arts standards.

- Writing, Grammar, and Usage
- Poems
 - Some examples include but are not limited to
 - Dreams (Langston Hughes)
 - the Drum (Nikki Giovanni)
 - George Washington (Rosemary and Stephen Vincent Benet)
 - Life Doesn't Frighten Me (Maya Angelou)
 - Paul Revere's Ride (Henry Wadsworth Longfellow)
- Fiction Stories
 - Some examples include but are not limited to
 - The Fire on the Mountain (an Ethiopian folktale)
 - *The Legend of Sleepy Hollow* and *Rip Van Winkle* (Washington Irving)
 - *Pollyanna* (Eleanor Porter)
 - *Robinson Crusoe* (Daniel Defoe)
 - *Treasure Island* (Robert Louis Stevenson)
- Myths and Mythical Characters
 - Legends of King Arthur and the Knights of the Round Table
- Speeches
 - Some examples include but are not limited to
 - Patrick Henry: "Give me Liberty or give me death"
 - Sojourner Truth: "Ain't I a woman?"
- Sayings & Phrases
 - Some examples include but are not limited to
 - An ounce of prevention is worth a pound of cure.
 - As the crow flies
 - Beauty is only skin deep.
 - The bigger they are, the harder they fall.
 - Birds of a feather flock together.

HISTORY & GEOGRAPHY

- World History
 - World Geography
 - Europe in the Middle Ages
 - The Spread of Islam and the "Holy Wars"
 - Early and Medieval African Kingdoms
 - China: Dynasties and Conquerors
- American History and Geography
 - The American Revolution
 - Making a Constitutional Government

- Early Presidents and Politics
- Reformers
 - Abolitionists
 - Dorothea Dix and the treatment of the insane
 - Horace Mann and public schools
 - Women's rights
 - Seneca Falls convention
 - Elizabeth Cady Stanton
 - Lucretia Mott
 - Amelia Bloomer
 - Sojourner Truth
- Symbols and Figures
 - Recognize and become familiar with the significance of
 - Spirit of '76 (painting)
 - White House and Capitol Building
 - Great Seal of the United States

MATHEMATICS

- Represent and solve problems involving multiplication and division.
- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.
- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Extend understanding of fractions.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Use unit fractions to understand operations of fractions.
- Understand decimal notation for fractions, and compare decimal fractions.
- Solve problems involving measurement.
- Solve problems involving area and perimeter
- Represent and interpret data.
- Understand concepts of angle and measure angles.
- Classify shapes based on lines and angles in two-dimensional figures.

SCIENCE

- The Human Body
 - The Circulatory System
 - The Respiratory System
- Chemistry: Basic Terms and Concepts
 - Atoms
 - Properties of Matter
 - Elements
 - Solutions

	<ul style="list-style-type: none"> ● Electricity ● Geology: The Earth and Its Changes <ul style="list-style-type: none"> ○ The Earth's Layers ○ How Mountains Are Formed ○ Rocks ○ Weathering and Erosion ● Meteorology ● Science Biographies <ul style="list-style-type: none"> ○ Benjamin Banneker ○ Elizabeth Blackwell ○ Charles Drew ○ Michael Faraday
5	<p>ENGLISH/LANGUAGE ARTS</p> <p>The following pieces listed are used to teach 5th grade reading skills and reading comprehension, all of which correlate with North Carolina's 5th grade English/Language Arts standards.</p> <ul style="list-style-type: none"> ● Writing, Grammar, and Usage ● Poems <ul style="list-style-type: none"> ○ Some examples include but are not limited to <ul style="list-style-type: none"> ■ A bird came down the walk (Emily Dickinson) ■ I Hear America Singing (Walt Whitman) ■ I, too, sing America (Langston Hughes) ■ O Captain! My Captain! (Walt Whitman) ■ The Road Not Taken (Robert Frost) ● Fiction and Drama Stories <ul style="list-style-type: none"> ○ Some examples include but are not limited to <ul style="list-style-type: none"> ■ <i>The Adventures of Tom Sawyer</i> (Mark Twain) ■ episodes from <i>Don Quixote</i> (Miguel de Cervantes) ■ <i>Little Women</i> (Part First) (Louisa May Alcott) ■ <i>Narrative of the Life of Frederick Douglass</i> (Frederick Douglass) ■ A Tale of the Oki Islands (a legend from Japan, also known as "The Samurai's Daughter") ■ Native American trickster stories (for example, tales of Coyote, Raven or Grandmother Spider) ● Speeches <ul style="list-style-type: none"> ○ Some examples include but are not limited to <ul style="list-style-type: none"> ■ Abraham Lincoln: The Gettysburg Address ■ Chief Joseph (Highh'moot Tooyalakekt): "I will fight no more forever" ● Sayings and Phrases <ul style="list-style-type: none"> ○ Some examples include but are not limited to <ul style="list-style-type: none"> ■ Bite the hand that feeds you. ■ Chip on your shoulder ■ Count your blessings. ■ Eureka!

- Every cloud has a silver lining.

MATHEMATICS

- Write and interpret numerical expressions.
- Analyze patterns and relationships.
- Understand the place value system.
- Perform operations with multi-digit whole numbers.
- Perform operations with decimals.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Convert like measurement units within a given measurement system.
- Represent and interpret data.
- Understand concepts of volume.
- Understand the coordinate plane.
- Classify quadrilaterals.

HISTORY & GEOGRAPHY

- World History and Geography
 - World Geography
 - Early American Civilizations
 - European Exploration, Trade, and the Clash of Cultures
 - The Renaissance and the Reformation
 - England from the Golden Age to the Glorious Revolution
 - Russia: Early Growth and Expansion
 - Feudal Japan
- American History and Geography
 - Westward Expansion
 - The Civil War: Causes, Conflicts, Consequences
 - Native Americans: Cultures and Conflicts
 - U.S. Geography

SCIENCE

- Classifying Living Things
- Cells: Structures and Processes
- Plant Structures and Processes
- Life cycles and Reproduction
- The Human Body
 - Changes in Human Adolescence
 - The Endocrine System
 - The Reproductive System
- Chemistry: Matter and Change
- Science Biographies

- Galileo
- Percy Lavon Julian
- Ernest Just
- Carl Linnaeus

6 ENGLISH/LANGUAGE ARTS

The following pieces listed are used to teach 6th grade reading skills and reading comprehension, all of which correlate with North Carolina’s 6th grade English/Language Arts standards.

- Poems and Greek Myths from *Realms of Gold*, Vol 1
- Stories
 - Sir Arthur Conan Doyle “The Adventure of the Dancing Men”
 - O. Henry “The Ransom of Red Chief”
 - Edgar Allan Poe “The Cask of Amontillado”
 - Saki (H. H. Munro) “The Open Window”
 - Mark Twain “The Celebrated Jumping Frog of Calaveras County”
- Essays
 - Henry David Thoreau –from *Walden*, “Where I Lived and What I Lived For”
 - Mark Twain “The Turning Point of My Life”
- Speeches
 - Susan B. Anthony “Are Women Persons?”
 - William Jennings Bryan “The Cross of Gold”
 - W.E.B. Du Bois “Address at the Founding of the Niagara Movement”
 - Red Cloud “Indian Rights”
 - Booker T. Washington “Atlanta Exposition Address”
- Autobiography
 - Marcus Aurelius Antoninus *His Meditations* –from Book 1, Parts 1-13
 - Geronimo –selection from *Geronimo: His Own Story*
 - Chief Joseph *The Fate of the Nez Percé Tribe*
 - Mark Twain –selection from *Life on the Mississippi*
 - Booker T. Washington –selection from *Up From Slavery*
- Other Works
 - Homer, *The Iliad* and *The Odyssey*
 - Mark Twain, *The Prince and the Pauper*
 - William Shakespeare, *Julius Caesar*
 - Karen Hesse, *Letters From Rifka*
 - Lynne Reid Banks, *Tiger, Tiger*

MATHEMATICS

- Understand Ratio concepts and use ratio reasoning to solve problems
- Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
- Compute fluently with multi digit numbers and find common factors and

multiples.

- Apply and extend previous understandings of numbers to the system of rational numbers.
- Apply and extend previous understandings of arithmetic to algebraic expressions.
- Reason about and solve one-variable equations.
- Reason about one variable inequalities.
- Represent and analyze quantitative relationships between dependent and independent variables.
- Solve real-world and mathematical problems involving area, surface area, and volume.
- Develop understanding of statistical variability.
- Summarize and describe distributions.

SCIENCE

- Properties of waves and the wavelike property of energy in earthquakes, light, and sound.
- Structure, classifications, and physical properties of matter.
- Characteristics of energy transfer and interactions of matter and energy.
- Earth/moon/sun system, and the properties, structures, and predictable motions of celestial bodies in the universe.
- Structure of the earth and how interactions of constructive and destructive forces have resulted in changes of the earth over time and the effects of the lithosphere on humans.
- Structures, processes, and behaviors of plants that enable them to survive and reproduce.
- Flow of energy through ecosystems and the responses of the populations to the biotic and abiotic factors in their environment.

WORLD HISTORY AND GEOGRAPHY

- Spatial Sense (Working with Maps, Globes, and Other Geographic Tools)
- Great Deserts of the World
- Lasting Ideas from Ancient Civilizations
 - Judaism and Christianity
 - Ancient Greece
 - Ancient Rome
- The Enlightenment
- The French Revolution
- Romanticism
- Industrialism, Capitalism, and Socialism
- Latin American Independence Movements
- Geography of Latin America

	<p>AMERICAN HISTORY AND GEOGRAPHY</p> <ul style="list-style-type: none"> ● Immigration, Industrialization, and Urbanization <ul style="list-style-type: none"> ○ Immigration ○ Industrialization and Urbanization ○ Reform
7	<p>ENGLISH/LANGUAGE ARTS</p> <p>The following pieces listed are used to teach 7th grade reading skills and reading comprehension, all of which correlate with North Carolina’s 7th grade English/Language Arts standards.</p> <ul style="list-style-type: none"> ● Poems from Realms of Gold, Vol. 2 ● Stories <ul style="list-style-type: none"> ○ Guy De Maupassant “The Necklace” ○ Edgar Allan Poe “The Tell-Tale Heart,” “The Purloined Letter” ○ O. Henry “Gift of the Magi” ○ F. Scott Fitzgerald “Bernice Bobs Her Hair” ○ James Joyce “Araby” ○ Guy De Maupassant “The Piece of String” ○ Frank O’Connor “My Oedipus Complex” ○ Katherine Ann Porter “The Jilting of Granny Weatherall” ● Essays <ul style="list-style-type: none"> ○ George Orwell “Shooting an Elephant” ● Speeches <ul style="list-style-type: none"> ○ Franklin D. Roosevelt “Declaration of War Against Japan” ○ Winston Churchill “Blood Sweat and Tears”; “Their Finest Hour” ○ Huey Long “Every Man a King” ○ George C. Marshall “European Unity” ○ Franklin Delano Roosevelt “The Four Freedoms” ○ Woodrow Wilson “The Fourteen Points” ● Autobiography <ul style="list-style-type: none"> ○ Benjamin Franklin —selection from <i>The Autobiography</i> ○ Helen Keller —selection from <i>The Story of My Life</i> ● Other Works <ul style="list-style-type: none"> ○ Jack London, <i>Call of the Wild</i> ○ Robert Stevenson, <i>Dr. Jekyll and Mr. Hyde</i> ○ Anne Frank, <i>Diary of a Young Girl</i> ○ Jack London, <i>White Fang</i> ○ Lois Lowery, <i>The Giver</i> ○ Mildred Taylor, <i>Roll of Thunder, Hear My Cry</i> ○ Esther Forbes, <i>Johnny Tremain</i> <p>MATHEMATICS</p> <ul style="list-style-type: none"> ● Analyze proportional relationships and use them to solve real-world and mathematical problems.

	<ul style="list-style-type: none"> ● Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. ● Use properties of operations to generate equivalent expressions. ● Solve real-world and mathematical problems using numerical and algebraic expressions, equations, and inequalities. ● Draw, construct, and describe geometrical figures and describe the relationships between them. ● Solve real-world and mathematical problems involving angle measure, area, surface area, and volume. ● Use random sampling to draw inferences about a population. ● Make informal inferences to compare two populations. ● Investigate chance processes and develop, use, and evaluate probability models. <p>SCIENCE</p> <ul style="list-style-type: none"> ● Motion, the effects of forces on motion and the graphical representations of motion. ● Forms of energy, energy transfer and transformation and conservation in mechanical systems. ● How the cycling of matter (water and gases) in and out of the atmosphere relates to Earth’s atmosphere, weather and climate and the effects of the atmosphere on humans. ● The processes, structures and functions of living organisms that enable them to survive, reproduce and carry out the basic functions of life. ● The relationship of the mechanisms of cellular reproduction, patterns of inheritance and external factors to potential variation among offspring. <p>HISTORY AND GEOGRAPHY</p> <ul style="list-style-type: none"> ● America Becomes a World Power ● World War I: “The Great War,” 1914–1918 ● The Russian Revolution ● America from the Twenties to the New Deal ● World War II ● Geography of the United States
8	<p>ENGLISH/LANGUAGE ARTS</p> <p>The following pieces listed are used to teach 8th grade reading skills and reading comprehension, all of which correlate with North Carolina’s 8th grade English/Language Arts standards.</p> <ul style="list-style-type: none"> ● Poems from Realms of Gold, Vol. 3 ● Stories <ul style="list-style-type: none"> ○ Anton Chekov “The Bet” ○ Stephen Crane “The Open Boat” ○ Fyodor Dostoyevsky “An Honest Thief” ○ Nathaniel Hawthorne “Dr. Heidegger’s Experiment” ○ Leo Tolstoy “God Sees the Truth But Waits”

- Katherine Mansfield “The Garden Party”
- Leo Tolstoy “Master and Man”
- Eudora Welty “Why I Live at the P.O.”
- Essays
 - Martin Luther King Jr “Letter from Birmingham City Jail”
 - Rachel Carson “The Marginal World” —from The Edge of the Sea
 - John McPhee “Under the Snow”
 - Virginia Woolf “The Death of the Moth”
- Speeches
 - John F. Kennedy “Inaugural Address”
 - Martin Luther King Jr “I Have a Dream”
 - Winston Churchill “The Sinews of Peace”
 - Albert Einstein “Peace in the Atomic Age”
 - Dwight Eisenhower “Farewell Address”
 - William Faulkner “Acceptance of the Nobel Prize”
 - Mahatma Gandhi “Non-cooperation”
 - Douglas MacArthur “Old Soldiers Never Die”
- Autobiography and Appendix
 - Richard Rodriguez selection from Hunger for Memory
 - The Universal Declaration of Human Rights
- Other Works
 - George Orwell, Animal Farm
 - Ayn Rand, Anthem
 - William Shakespeare, Romeo and Juliet
 - Jules Verne, Around the World in 80 Days
 - Homer Hickham, Rocket Boys

MATHEMATICS

- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Work with radicals and integer exponents.
- Analyze and solve linear equations and inequalities.
- Analyze and solve pairs of simultaneous linear equations.
- Define, evaluate, and compare functions.
- Use functions to model relationships between quantities.
- Understand congruence and similarity using physical models, transparencies, or geometry software
- Analyze angle relationships.
- Understand and apply the Pythagorean Theorem.
- Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.
- Investigate patterns of association in bivariate data.

SCIENCE

- The properties of matter and changes that occur when matter interacts in an open and closed container
- The environmental implications associated with the various methods of obtaining, managing, and using energy resources.
- The hydrosphere and the impact of humans on local systems and the effects of the hydrosphere on humans.
- The history of Earth and its life forms based on evidence of change recorded in fossil records and landforms.
- The hazards caused by agents of diseases that affect living organisms.
- How biotechnology is used to affect living organisms.
- How organisms interact with and respond to the biotic and abiotic components of their environment.
- The evolution of organisms and landforms based on evidence, theories and processes that impact the Earth over time.
- The composition of various substances as it relates to their ability to serve as a source of energy and building materials for growth and repair of organisms.

WORLD HISTORY AND GEOGRAPHY

- Ancient Civilizations
- The Romans, 600 B.C. - A.D. 500
- The Byzantine Empire A.D. 50-800
- Islam and the Arab Empire, 600-1400
- Medieval Kingdoms in Europe, 800-1300
- Crusades and Culture in the Middle Ages, 1000-1500
- Pre-Columbian America, 300-1550
- The Renaissance in Europe, 1350-1600
- The Reformation in Europe, 1517-1600
- The Age of Exploration, 1500-1800
- The Muslim Empires, 1450-1800
- The East Asian World, 1400-1800
- The Enlightenment and Revolutions, 1550-1800
- The French Revolution and Napoleon, 1789-1815
- Industrialization and Nationalism, 1800-1870
- The Reach of Imperialism, 1800-1914
- World War 1 and the Russian Revolution, 1914-1919
- The West Between the Wars, 1919-1939
- Nationalism Around the World, 1919-1939
- World War II and the Holocaust, 1939-1945
- The Cold War, 1945-1989
- Life During the Cold War, 1945-1989