

Social Studies

Course Description

Eighth graders study U.S. geography, government and history to the Civil War, and experience the challenge of democratic government through bi-monthly scored discussions and study of current events.

What are Essential Skills and Concepts?

- Improving reading, critical thinking and communication skills
- Vocabulary enhancement
- Use maps, charts, graphs and primary source documents to get information
- Gains basic chronological sequencing of critical events of American History
- Understands purpose of the U.S. Constitution and Declaration of Independence
- Understands the purpose of government and the three branches of U.S. government on local, state and national levels
- Can match at least 40 of 50 states and locate the District of Columbia
- Knows geographic location of important U.S. resources and population centers

Science

Essential Concepts and/or Skill:

- Understand and apply knowledge of the structure and processes of the earth system and the processes that change the earth and its surface.
- Understand and apply knowledge of the water cycle, including considerations of events that impact groundwater quality.
- Understand and apply knowledge of earth history based on physical evidence.
- Understand and apply knowledge of the earth's atmospheric properties and how they influence weather and climate.
- Understand and apply knowledge of the components of our solar system.



Dike-New
Hartford CSD
8th Grade

Dike-New Hartford CSD

330 Main St., Dike, IA 50624

<http://www.dnhcsd.org>

DNH CSD

Literacy

Literature and Informational Text

- Analyze pieces of literature and give evidence that most strongly support inferences drawn.
- Identify a theme, a central idea, or two or more central ideas of a reading, how they relate to the literary elements, and provide a summary for it.
- Analyze how dialogue or incidents in reading reveal aspects of a character.
- Analyze the interactions between characters, events, and ideas in an informational reading.
- Analyze how a drama's or poem's form, words and phrases, structure, or technical meanings contributes to its meaning.
- Analyze how an author develops and contrasts the points of view of different characters, narrators, or author's position in a reading.
- Compare and contrast all genres
- By the end of the year read and comprehend different genres at grade level appropriateness.
- Trace and evaluate the validity of the argument and claims in a reading.
- Analyze how two or more authors writing about the same topic have different viewpoints and how an author acknowledges and responds to conflicting viewpoint

Writing

Types of Writing

- Fiction Writing (short story)
- Cause/Effect Writing
- Compare/ Contrast
- Persuasive Presentation/Writing
- Research Paper or Informative Writing
- Personal Narrative

Production, Distribution, and Presentation of Writing

- Student effectively uses the writing process
- Student is able to produce a piece of writing that is appropriate to task and audience
- Students will effectively use technology and various resources to produce effective pieces of writing.

Speaking and Listening

- Engage in and be prepared for collaborative discussions with various partners on eighth grade topics.
- Analyze the purpose of information presented in diverse media and formats.
- Students will prepare a speech using multi media and proper speech etiquette

Language

- Demonstrate a proficiency in standard English capitalization, punctuation, spelling, and grammar usage in writing and speaking

Vocabulary

- Determine or understand the meanings of unknown and multiple-meaning words and phrases based on eighth grade curriculum
- Demonstrate understanding of figurative language, word relationships, and unique word meanings
- Acquire and accurately use eighth grade vocabulary

Transition Math Overview

- Know the difference between sets of numbers; irrational, rational, integers, whole, prime, odd and evens.
- Add, subtract, multiply, and divide rational numbers (positive and negative fractions and decimals.)
- Work with square roots and scientific notation.
- Understand the connections between proportional relationships, lines, and linear equations.
- Analyze, graph and solve linear equations.
- Understand the relationships with lines, parallel lines and the angles they create.
- Understand and apply the Pythagorean Theorem.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring.
- Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability
- Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation.

Mathematical Practices in all classes

- Explains thinking and understands the reasoning of others.
- Makes sense of problems and persevere in solving them.
- Works accurately using appropriate tools.
- Looks for and makes use of patterns.

Algebra Overview

- Review of operations with integers, decimals, and fractions
- Verbal and algebraic models to solve problems
- The Distributive Property
- Simplify and evaluate expressions
- Solve linear equations and inequalities
- Graphing linear equations and inequalities
- Write equations of lines
- Exponent rules
- Simplifying radicals
- Solving quadratic equations using radicals
- Polynomial operations