

CHOWCHILLA REFRIGERATOR CURRICULUM FOR FIFTH GRADE



ENGLISH LANGUAGE ARTS *

Aligned to Common Core State Standards

- Determine the theme of a story, play, or poem, including how characters respond to challenges
- Describe how a narrator's or speaker's point of view influences how events are described
- Compare and contrast stories that deal with similar themes or topics
- Explain how authors use reasons and evidence to support points or ideas
- Draw on information from multiple books, articles, or online sources to locate an answer or to solve a problem quickly
- Use standard English when speaking and writing
- Learn and use new vocabulary, including words related to specific subjects (e.g., science words, social studies words)
- Participate in discussions by listening, asking questions, sharing ideas, and building on the ideas of others
- Write research or opinion papers over extended periods of time

MATHEMATICS *

Aligned to Common Core State Standards

- Write and interpret numerical expressions

- Express a whole number in the range 2-50 as a product of its prime factors. For example, find the prime factors of 24 and express 24 as $2 \times 2 \times 2 \times 3$
- Analyze patterns and relationships
- Understand the place value system
- Perform operations with multi-digit whole numbers and with decimals to hundredths
- Use equivalent fractions as a strategy to add and subtract fractions
- Apply and extend previous understanding of multiplication and division to multiply and divide fractions
- Convert like measurement units within a given measurement system
- Represent and interpret data
- Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition
- Graph points on the coordinate plane to solve real-world and mathematical problems
- Classify two-dimensional figures into categories based on their properties
- Distinguish among rectangles, parallelograms, and trapezoids
- Know that the sum of the angles of any triangle is 180° and the sum of the angles of any quadrilateral is 360° and use this information to solve problems
- Derive and use the formula for the area of a triangle and of a parallelogram by comparing it with the formula for the area of a rectangle

SCIENCE :

Aligned to Common Core State Standards

Earth Science: Earth's System's/ Space Systems- Stars and the Solar System

- Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.
- Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.
- Obtain and combine information about ways individual communities use science ideas to protect Earth's resources and environment.

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SCIENCE CONTINUED:

- Support an argument that the gravitational force exerted by Earth on objects is directed down.
- Support an argument that differences in the apparent brightness of the Sun compared to other stars is due to their relative distances from Earth.
- Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.

Life Science: Matter and Energy in Organisms and Ecosystems

- Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.
- Support an argument that plants get the materials they need for growth chiefly from air and water.
- Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

Physical Science: Structure and Properties of Matter

- Develop a model to describe that matter is made of particles too small to be seen.
- Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.

- Make observations and measurements to identify materials based on their properties.
- Conduct an investigation to determine whether the mixing of two or more substances results in new substances.

Engineering

- Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
- Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.
- Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved

SOCIAL STUDIES

Aligned to Common Core State Standards

- Students describe the major pre-Columbian settlements, including the cliff dwellers and pueblo people of the desert Southwest, the American Indians of the Pacific Northwest, the nomadic nations of the Great Plains, and the woodland peoples east of the Mississippi River.
- Students trace the routes of early explorers and describe the early explorations of the Americas.
- Students describe the cooperation and conflict that existed among the American Indians and between the Indian nations and the new settlers.

- Students understand the political, religious, social, and economic institutions that evolved in the colonial era.
- Students explain the causes of the American Revolution.
- Students understand the course and consequences of the American Revolution.
- Students describe the people and events associated with the development of the U.S. Constitution and analyze the Constitution's significance as the foundation of the American republic.
- Students trace the colonization, immigration, and settlement patterns of the American people from 1789 to the mid-1800s, with emphasis on the role of economic incentives, effects of the physical and political geography, and transportation systems.
- Students know the location of the current 50 states and the names of their capital.

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