



CHOWCHILLA REFRIGERATOR CURRICULUM FOR SIXTH GRADE



ENGLISH LANGUAGE ARTS *

Aligned to Common Core State Standards

- Provide detailed summaries of texts
- Determine the theme or central idea of a text and how it is conveyed through particular details
- Use a range of reading strategies to determine the meaning of unknown words in a text
- Integrate information presented in different media or formats (e.g., visually, numerically) to develop a coherent understanding of a topic or issue
- Understand the figurative and connotative (implied) meaning of words and phrases
- Identify and evaluate specific claims or arguments in a text
- Support written claims or arguments with clear reasons and relevant evidence
- Produce clear and coherent writing appropriate to the task, purpose, and audience
- Participate in discussions about various texts and topics
- Conduct short research projects to answer a question
- Use precise language and subject-specific vocabulary

MATHEMATICS *

Aligned to Common Core State Standards

- 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 addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram
- Describe situations in which opposite quantities combine to make 0.
- Understand that $p+q$ as the number located a distance “q” from p, in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.

- Understand subtraction of rational numbers as adding the additive inverse, $p-q=p+(-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.
- Apply properties of operations as strategies to add and subtract rational numbers
- Apply and extend previous understandings of arithmetic to algebraic expressions
- Reason about and solve one-variable equations and inequalities
- Represent and analyze quantitative relationships between dependent and independent variables
- Solve real-world and mathematical problems involving area, surface area, and volume
- Draw geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the condition determine a unique triangle, more than one triangle, or no triangle
- Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle
- Develop understanding of statistical variability
- Summarize and describe distributions

SCIENCE

Aligned to Next Generation Common Core Standards

- Actively investigate topics of interest. Suggestions include the following:
 - Model the layers of earth
 - Examine the body systems of plants and animals in a variety of ways (e.g., computer simulations, models)
 - Create and use simple and compound machines
 - Compare the density of common items (e.g., rocks, marbles, cork, candle wax) using a water displacement
 - Create a model representing the phases of the moon
 - Learn how energy is transferred
 - Discover ways that plants and animals have adapted to their environment (e.g., teeth, horns, fur, coloration, wings, type of seed, thorns)

- Research selective breeding in plants and animals
- Explore landforms found in Arkansas (e.g., mountains, plateaus, earthquake faults)
- Use available technology to research contemporary scientists

SOCIAL STUDIES

Aligned to Common Core State Standards

- Students describe what is known through archaeological studies of the early physical and cultural development of humankind from the Paleolithic era to the agricultural revolution.
- Students analyze the geographic, political, economic, religious, and social structures of the early civilizations of Mesopotamia, Egypt, and Kush.
- Students analyze the geographic, political, economic, religious, and social structures of the early civilizations of:
 - Ancient Greece
 - India
 - China
 - Rome

You are your child’s first and most important teacher. We value your support in building a solid foundation to prepare your child for school. This is a list of concepts and skills that will help your child be successful in sixth grade. **This list is only a sample and does not include everything that will be taught throughout the year.**

* Adapted from the Council of the Great City Schools Parent Roadmaps to Common Core Standards: <http://www.cgcs.org/domain/36>

Additional resource: National PTA <http://www.pta.org/4446.htm>