



# ARKANSAS REFRIGERATOR CURRICULUM FOR KINDERGARTEN



## ENGLISH LANGUAGE ARTS \*

*Aligned to Common Core State Standards*

- ☐ Name and write uppercase and lowercase letters
- ☐ Match letters to sounds when reading and writing
- ☐ Learn and use new vocabulary words
- ☐ Identify words that rhyme
- ☐ Read common words such as the, of, you, are, she, and my
- ☐ Ask and answer questions about a story
- ☐ Identify characters, settings, and major events in a story
- ☐ Participate in discussions by listening and taking turns speaking
- ☐ Sort common objects into categories
- ☐ Express thoughts, feelings, and ideas clearly

## MATHEMATICS \*

*Aligned to Common Core State Standards*

- ☐ Count the number of objects in a group and compare the number of objects in two groups
- ☐ Compare two numbers to identify which is greater than or less than the other
- ☐ Understand addition as putting together and adding to and subtraction as taking apart and taking away from
- ☐ Add and subtract very small numbers quickly and accurately
- ☐ Represent numbers less than or equal to 10 in more than one way (e.g.,  $9=6+3$  or

$9=5+4$ )

- ☐ Find the number from 1 to 9 that can be added to a given number to reach 10 by using objects or drawings to represent the problem
- ☐ Solve addition and subtraction word problems involving numbers of 10 or less
- ☐ Represent addition and subtraction word problems by using objects or drawing pictures
- ☐ Count to 100 by ones and tens
- ☐ Understand that the place value of numbers from 11 to 19 contains ten ones and some leftover ones (e.g.,  $14=10+4$ )

## SCIENCE

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Learn by watching and gathering information from surroundings
- ☐ Identify objects in the sky: sun, moon, other stars, clouds, birds, airplanes
- ☐ Identify the five senses: hearing, seeing, smelling, tasting, touching
- ☐ Know the difference between living and non-living things
- ☐ Identify uses of electricity
- ☐ Identify basic life needs: water, food, air
- ☐ Describe the seasons

## SOCIAL STUDIES

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Identify water and land, AR, and the U.S. on maps and globes

- ☐ Use words related to location, direction, and distance
- ☐ Identify home address, school, and city
- ☐ Discuss differences and similarities in families and communities
- ☐ Recognize the importance of protecting air, land, and water
- ☐ Recognize the need for rules and consequences for violating rules
- ☐ Practice good citizenship and good manners
- ☐ Identify the governor, famous Arkansans, and the president
- ☐ Recognize state and national symbols and holidays
- ☐ Recognize all people have economic wants and needs and must make choices
- ☐ Discuss how and why people earn a living

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 kindergarten. **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>



# ARKANSAS REFRIGERATOR CURRICULUM FOR FIRST GRADE



## ENGLISH LANGUAGE ARTS \*

*Aligned to Common Core State Standards*

- ☐ Read and retell stories demonstrating understanding of the lesson or moral of the story
- ☐ Ask and answer questions about a story, including characters, settings, and major events
- ☐ Explain differences between texts that tell stories and texts that provide information
- ☐ Identify who is telling the story at various points in a text
- ☐ Identify main topic and retell key details of an informative text
- ☐ Learn and use new vocabulary
- ☐ Participate in class discussions by listening, responding to what others are saying, and asking questions
- ☐ Use standard English when speaking and writing
- ☐ Write to describe an event, provide information on a topic, or share an opinion
- ☐ Select a topic, supply facts about the topic, and provide a sense of closure when writing

## MATHEMATICS \*

*Aligned to Common Core State Standards*

- ☐ Quickly and accurately add numbers that total 10 or less and subtract from numbers through 10
- ☐ Use the rules of addition and subtraction {e.g., *Commutative Property*  $5+2=2+5$ ; *Associative Property*  $(2+6)+4=2+(6+4)$ } to solve word problems that involve adding or subtracting numbers through 20
- ☐ Count to 120 starting at any number less than 120
- ☐ Understand that different digits in two-digit

numbers represent tens and ones (e.g.,  $36=3$  tens +6 ones)

- ☐ Compare two-digit numbers using the symbols  $>$  (more than),  $=$  (equal to), and  $<$  (less than)
- ☐ Add and subtract numbers through 100 using a one- and two-digit number (e.g.,  $35+4$ ) and a two-digit number and a multiple of 10 (e.g.,  $35+30$ )
- ☐ Measure the lengths of objects using a shorter object as a unit of length
- ☐ Tell and write time in hours and half-hours
- ☐ Organize objects into categories and compare the number of objects in different categories
- ☐ Divide circles and rectangles into two and four parts and use the words *halves*, *fourths*, and *quarters*

## SCIENCE

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Learn by watching and gathering information from surroundings
- ☐ Safely conduct science investigations in teams
- ☐ Learn to group animals that are alike
- ☐ Learn the different life stages of plants and animals
- ☐ Identify materials as magnetic or nonmagnetic
- ☐ Learn how seasons change the weather
- ☐ Identify the difference between rock, land, and soil
- ☐ Identify human body parts: heart, lungs, brain, stomach, muscles, bones

## SOCIAL STUDIES

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Recognize symbols, cardinal directions, and physical features on a map

- ☐ Use directional words
- ☐ Know there are elements of culture (e.g., food, clothing, language, customs)
- ☐ Know and follow classroom/school rules
- ☐ Discuss the roles of family members and school personnel
- ☐ Demonstrate rights and responsibilities of good citizens
- ☐ Identify people and events observed in state and national celebrations and holidays
- ☐ Use chronological terms and determine sequential order of events on a timeline
- ☐ Know the difference between wants and needs, goods and services, and choices
- ☐ Recognize why people need various types of transportation

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 first 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>



# ARKANSAS REFRIGERATOR CURRICULUM FOR SECOND GRADE



## ENGLISH LANGUAGE ARTS \*

*Aligned to Common Core State Standards*

- ☐ Read stories, including fables and folktales from different cultures, and identify the lesson or moral of the story
- ☐ Acknowledge differences in the points of view of characters, including speaking in a different voice for each character when reading dialogue aloud
- ☐ Read texts about history, social studies, or science and identify the main idea
- ☐ Answer who, what, where, when, why, and how questions about stories and books to demonstrate understanding of key details
- ☐ Describe the reasons that an author gives to support a point
- ☐ Learn and use new vocabulary
- ☐ Use standard English when speaking and writing
- ☐ Participate in discussions by listening and building on what others say
- ☐ Write about a short series of events and describe actions, thoughts, and feelings
- ☐ Write about a book, using important details and examples to support an original opinion
- ☐ Introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section when writing informative texts

## MATHEMATICS \*

*Aligned to Common Core State Standards*

- ☐ Solve one- and two-step word problems by adding or subtracting within 100
- ☐ Understand that the *place value* of digits in a three-digit number represents hundreds, tens, and ones (e.g.,  $365 = 3 \text{ hundreds} + 6 \text{ tens} + 5 \text{ ones}$ )

- ☐ Add and subtract numbers through 1000 using place value
- ☐ Add up to four two-digit numbers
- ☐ Count within 1000; skip-count by 5s, 10s, and 100s
- ☐ Quickly and accurately add numbers that total 20 or less and subtract from numbers through 20
- ☐ Estimate and measure lengths of objects in standard units of inches, feet, centimeters, and meters
- ☐ Solve addition and subtraction word problems involving length
- ☐ Solve word problems involving money
- ☐ Divide a rectangle into same-size squares
- ☐ Divide circles and rectangles into halves, thirds, or fourths
- ☐ Solve addition, subtraction, and comparison word problems using information presented in a bar graph

## SCIENCE

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Learn to ask questions about outside surroundings
- ☐ Identify characteristics of mammals, birds, and fish
- ☐ Learn about the function of plant parts: leaves, stems, flowers, roots
- ☐ Explore the relationship between force and motion
- ☐ Chart daily weather conditions
- ☐ Identify natural resources
- ☐ Explore the phases of the moon

## SOCIAL STUDIES

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Locate countries bordering the U.S., the N/S Poles, equator, continents, oceans
- ☐ Use cardinal directions
- ☐ Compare customs, lifestyle, and clothing of people in other parts of the world
- ☐ Identify people/groups who make, apply, and enforce rules and laws
- ☐ Understand and follow school, classroom, and community rules
- ☐ Discuss rights and responsibilities of citizens
- ☐ Understand the significance of state/national symbols, holidays, and events
- ☐ Recognize changes between the present and past within the community
- ☐ Identify wants/needs, producers/consumers, and goods/services in the community

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 second 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>

# ARKANSAS REFRIGERATOR CURRICULUM FOR THIRD GRADE



## ENGLISH LANGUAGE ARTS \*

*Aligned to Common Core State Standards*

- ☐ Read a wide range of stories and describe how a story teaches a lesson
- ☐ Describe characters in a story and how their actions contribute to events
- ☐ Read texts and answer questions about history, social studies, or science
- ☐ Refer to information from illustrations such as maps or pictures as well as the words in a text to support answers
- ☐ 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 stories with dialogue, describing characters' actions, thoughts, and feelings
- ☐ Gather information from books, articles, and online sources to learn more about a topic
- ☐ Write research or opinion papers over extended periods of time

## MATHEMATICS \*

*Aligned to Common Core State Standards*

- ☐ Solve two-step word problems by adding, subtracting, multiplying, or dividing numbers through 100
- ☐ Use place value to round whole numbers to the nearest 10 or 100
- ☐ Quickly and accurately add and subtract numbers through 1000
- ☐ Multiply one-digit whole numbers by multiples of 10 between 10 and 90. (e.g.,  $9 \times 80$  or  $5 \times 60$ )
- ☐ Multiply all one-digit numbers from memory

(know the times table)

- ☐ Relate the measurement of area to multiplication and division
- ☐ Understand fractions as numbers and identify them on a number line
- ☐ Compare the size of two fractions (e.g.,  $1/2 = 2/4$ ,  $4/6 = 2/3$ )
- ☐ Express whole numbers as fractions and identify fractions that are equal to whole numbers (e.g., recognize that  $3/1$  and 3 are the same number)
- ☐ Estimate and measure liquid volumes and weights; solve word problems using grams, kilograms, and liters
- ☐ Tell and write time to the nearest minute and measure time intervals in minutes
- ☐ Represent and interpret data on a picture graph and bar graph
- ☐ Measure lengths using rulers marked with halves and fourths of an inch

## SCIENCE

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Learn to ask questions about outside surroundings
- ☐ Make predictions based on prior knowledge
- ☐ Safely use simple equipment and technology in scientific investigations
- ☐ Learn about sound waves
- ☐ Learn about different methods of producing electricity in Arkansas: coal, natural gas, nuclear, oil
- ☐ Become familiar with the respiratory system and muscular system
- ☐ Explore Earth's materials: rocks, minerals, fossils, soils
- ☐ Learn about living and extinct animals

## SOCIAL STUDIES

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Know how to use a map legend/key
- ☐ Use maps to identify continents, oceans, lakes, mountains, states, cities
- ☐ Compare local community life with communities in other countries
- ☐ Understand citizens have rights and responsibilities
- ☐ Learn how people in families, schools, and communities set rules and solve problems
- ☐ Identify governmental leaders and famous Arkansans
- ☐ Identify examples of cultural contributions to history
- ☐ Develop and practice problem-solving methods

**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 third grade. This list is only a sample and does not include everything that will be taught throughout the year.**





# ARKANSAS REFRIGERATOR CURRICULUM FOR FOURTH GRADE



## ENGLISH LANGUAGE ARTS \*

*Aligned to Common Core State Standards*

- ☐ Identify the theme or main idea of a story, play, or poem
- ☐ Compare stories from different cultures
- ☐ Compare and contrast the point of view from which different stories are told, including the difference between first and third person accounts
- ☐ Explain how an author uses facts, details, and evidence to support points; refer to these details/examples when drawing inferences from the text
- ☐ Read and interpret information presented in charts, graphs, timelines, and other illustrations
- ☐ 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 stories with dialogue, describing characters' actions, thoughts, and feelings
- ☐ Take notes and organize information from books, articles, and online sources to learn more about a topic
- ☐ Write research or opinion papers over extended periods of time

## MATHEMATICS \*

*Aligned to Common Core State Standards*

- ☐ Use place value to round multi-digit whole numbers to any place
- ☐ Compare two multi-digit numbers based on the meanings of the digits in each place, using the

symbols  $>$  (more than),  $=$  (equal to), and  $<$  (less than)

- ☐ Multiply and divide multi-digit numbers
- ☐ Quickly and accurately add and subtract whole numbers up to 1 million
- ☐ Create a fraction and explain why it is equal to another fraction
- ☐ Add and subtract fractions and mixed numbers (whole numbers mixed with fractions) that have the same denominators; multiply a fraction by a whole number
- ☐ Compare the size of two fractions with different numerators (top numbers) and different denominators (bottom numbers)
- ☐ Convert fractions with denominators of 10 or 100 into decimals
- ☐ Compare decimals and fractions using the symbols  $>$  (more than),  $=$  (equal to), and  $<$  (less than)
- ☐ Locate decimals on a number line
- ☐ Solve multi-step word problems involving measurement and conversion of measurement from larger to smaller units (e.g., km, m, cm; kg, g; lb., oz.; l, ml; hr., min, sec.)
- ☐ Represent and interpret data using a line plot containing fractions
- ☐ Draw and identify lines and angles; classify shapes by properties of their lines and angles

## SCIENCE

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Conduct safe experiments with help
- ☐ Observe organisms with a microscope
- ☐ Recognize mammals, birds, fish, amphibians, and reptiles
- ☐ Become familiar with the digestive system, circulatory system, and nervous system

- ☐ Learn how plants and animals adjust to their environment
- ☐ Learn about changes in weather
- ☐ Understand the relationship between magnets and electricity
- ☐ Experiment with static and current electricity, including simple circuits

## SOCIAL STUDIES

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Describe cultural characteristics of diverse populations in AR and the U.S.
- ☐ Learn about physical characteristics, natural resources, and industries of Arkansas
- ☐ Identify some specific rights/responsibilities
- ☐ Discuss reasons for human settlement patterns (e.g., jobs, climate, family)
- ☐ Identify the three branches of government in the U.S.
- ☐ Examine the meaning of the Pledge of Allegiance
- ☐ Identify major historic events that occurred during the 20th century in AR and the U.S.
- ☐ Use economic terms in solving economic problems

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 fourth grade. **This list is only a sample and does not include everything that will be taught throughout the year.**

# ARKANSAS 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*

- ☐ Use place value to round multi-digit whole numbers to any place
- ☐ Write and interpret numerical expressions {e.g., add 8 and 7, then multiply by 2 can be written as  $2 \times (8+7)$ }
- ☐ Analyze and determine relationships between numerical patterns
- ☐ Understand the place value system
- ☐ Quickly and accurately multiply multi-digit whole numbers
- ☐ Divide numbers with up to four digits by two digit numbers
- ☐ Read, write, and compare decimals to thousandths using the symbols > (more than), = (equal to), and < (less than)

- ☐ Add, subtract, multiply, and divide decimals to the hundredths place
- ☐ Add and subtract fractions with different denominators
- ☐ Multiply a fraction by a whole number or another fraction
- ☐ Divide fractions by whole numbers and whole numbers by fractions
- ☐ Measure volume using multiplication and addition
- ☐ Convert like measurement units within a given measurement system (e.g., convert 5cm to 0.05m)
- ☐ Represent and interpret data using a line plot containing fractions
- ☐ Classify two-dimensional figures into categories based on their properties

## SCIENCE

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Conduct safe experiments with help
- ☐ Actively investigate topics of interest. Suggestions include the following:
  - ☐ Grow plants under various conditions (e.g., more or less sunlight, water, fertilizer)
  - ☐ Examine how various materials like a mirror, wood, or water reflect or absorb light energy
  - ☐ Investigate how crystals are formed
  - ☐ Examine a variety of rocks and minerals found in Arkansas
- ☐ Build a model of a plant or animal cell with common materials (e.g., modeling clay, construction paper, dried pasta)
- ☐ Research to discover how plants and animals get the energy they need
- ☐ Observe plants and animals in a given area and investigate food webs
- ☐ Learn about careers and contributions of scientists
- ☐ Identify the relationship of atoms to matter
- ☐ Summarize how light and heat influence matter
- ☐ Build and use simple machines (e.g., wheel and axle, lever)

- ☐ Learn about the objects and planets in our solar system

## SOCIAL STUDIES

*Aligned to Arkansas Curriculum Frameworks*

- ☐ Locate and explain the importance of major river systems in AR and the U.S.
- ☐ Discuss the differences and similarities among various types of maps used by geographers
- ☐ Describe customs, celebrations, and traditions of racial, ethnic, and religious groups in AR and the U.S.
- ☐ Recognize factors that influence migration
- ☐ Describe the system of checks and balances in government
- ☐ Identify elected state and federal officials
- ☐ Identify the founding documents that helped establish the U.S.
- ☐ Research and discuss contributions of significant individuals and explorers

**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 fifth 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>



# ARKANSAS 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 and apply the concepts of ratios and unit rates (e.g., the ratio of wings to beaks in a flock of birds is 2 to 1 because for every 2 wings there is 1 beak) to solve real-world and mathematical problems
- ☐ Divide fractions by fractions using both visual models and equations to show the problem
- ☐ Quickly and accurately add, subtract, multiply, and divide multi-digit decimals
- ☐ Find the greatest common factor of two numbers less than or equal to 110 and the least common multiple of two numbers less than or equal to 12
- ☐ Understand and use rational numbers (fractions, decimals, and percentages)
- ☐ Understand that positive and negative numbers are used together to describe quantities having opposite

directions or values

- ☐ Use pairs of numbers, including negative numbers, as coordinates for locating or placing a point on a graph
- ☐ Write and determine the value of expressions with whole-number exponents (e.g.,  $15+3^2$ )
- ☐ Identify and write equivalent mathematical expressions by applying the properties of operations {e.g., recognize that  $2(3+x)$  is the same as  $6+2x$ }
- ☐ Understand that solving an equation such as  $2 + x = 12$  means answering the question: *What number does x have to be to make this statement true?*
- ☐ Represent and analyze the relationships between independent and dependent variables
- ☐ Solve problems involving area, surface area, and volume
- ☐ Understand statistical variability and summarize distributions

## SCIENCE

*Aligned to Arkansas Curriculum Frameworks*

- ☐ 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 Arkansas Curriculum Frameworks*

- ☐ Illustrate population, climate, weather patterns on selected types of maps, charts, and graphs
- ☐ Examine the cultural contributions of people from different places
- ☐ Discuss roles and responsibilities of the three branches of government
- ☐ Discuss how rights and laws in the U.S. were created
- ☐ Examine the founding documents
- ☐ Analyze the importance of citizen participation
- ☐ Analyze the impact of scientific and technological innovations on AR and the U.S.

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>



# ARKANSAS REFRIGERATOR CURRICULUM FOR SEVENTH GRADE



## ENGLISH LANGUAGE ARTS \*

*Aligned to Common Core State Standards*

- ☐ Analyze how the form or structure of a play or poem contributes to its meaning
- ☐ Analyze how particular elements of a story or play interact (e.g., how the setting shapes the characters or plot)
- ☐ Determine how an author develops and contrasts the points of view of different characters or narrators in a text
- ☐ Conduct short research projects, drawing on several sources and identifying related questions for further research and investigation
- ☐ Compare and contrast a text to an audio, video, or multimedia version of the text, analyzing each medium's portrayal of the subject (e.g., how the delivery of a speech affects the impact of the words)
- ☐ Engage in a range of discussions on topics and texts, expressing ideas clearly and building on the ideas of others
- ☐ Identify a speaker's argument and specific claims and evaluate the reasoning and evidence behind these claims
- ☐ Introduce a topic clearly, previewing what is to follow, and develop the topic with relevant facts, definitions, concrete details, quotations, or other information and provide a concluding statement when writing informative texts
- ☐ Write for a range of purposes and audiences

- ☐ Use precise language and subject-specific vocabulary to inform or explain the topic

## MATHEMATICS \*

*Aligned to Common Core State Standards*

- ☐ Analyze proportional relationships and use them to solve real-world problems in various ways, including using tables, graphs, and equations
- ☐ Identify the unit rate of change (the constant rate at which the value of a variable changes) in tables, graphs, equations, and verbal descriptions
- ☐ Determine whether two quantities are in a proportional relationship and use knowledge of rates, ratios, proportions, and percentages to solve multi-step problems (e.g., simple interest, tax, markups and markdowns)
- ☐ Solve problems using equations to find the value of one missing variable
- ☐ Describe situations in which positive and negative quantities combine to make 0 and understand that numbers cannot be divided by 0
- ☐ Solve multi-step word problems by adding, subtracting, multiplying, and dividing positive and negative rational numbers in any form (e.g., whole numbers, fractions, or decimals)
- ☐ Use variables to represent quantities and construct simple equations and inequalities (for example,  $5x + 2 > 10$ ) to solve problems

- ☐ Use properties of operations (add, subtract, factor, and expand linear expressions with rational coefficients) to generate equivalent expressions
- ☐ Draw, construct, and describe geometrical figures and describe their relationships
- ☐ Solve problems involving angle measure, area of two-dimensional objects, formula for circumference of a circle, and volume and surface area of three-dimensional objects

**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 seventh 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>





# ARKANSAS REFRIGERATOR CURRICULUM FOR EIGHTH GRADE



## ENGLISH LANGUAGE ARTS \*

*Aligned to Common Core State Standards*

- ☐ Identify what a reading selection explicitly says and draw inferences based on evidence from the text
- ☐ Determine a theme or central idea of a text and analyze its development over the course of the text, including its relationship to the characters, setting, and plot
- ☐ Evaluate the argument and specific claims in a text, assessing whether the reasoning is sound and the evidence is relevant and sufficient
- ☐ Connect information and ideas efficiently and effectively in writing
- ☐ Analyze the purpose of information presented in diverse media formats, such as video clips or interactive maps
- ☐ Evaluate the advantages and disadvantages of using different mediums (such as print, or digital text, video, or multimedia) to present a particular topic or idea
- ☐ Participate in discussions on various topics, texts, and issues by expressing ideas and building on the ideas of others
- ☐ Introduce a topic clearly, previewing what is to follow, and develop the topic with relevant, well chosen facts, definitions, concrete details, quotations, or other information and provide a concluding statement or section that supports the information or explanation when writing informative texts
- ☐ Organize ideas, concepts, and information into broader categories
- ☐ Develop a large vocabulary of multi-use academic words and phrases; use precise language and subject-specific vocabulary

## MATHEMATICS \*

*Aligned to Common Core State Standards*

- ☐ Understand that every rational number (e.g.,  $\frac{1}{2}$ , 0.3, 2, or -2) can be written as a decimal, but that the decimal form of an irrational number (e.g.,  $\sqrt{2}$ ) is both non-repeating and infinite
- ☐ Know and apply the properties of integer exponents (e.g., positive numbers, negative numbers, or 0) to write equivalent expressions (e.g.,  $4^2 \times 4^3 = 4^5$ )
- ☐ Determine the value of square roots of small perfect squares (e.g.,  $\sqrt{49} = 7$ ) and cube roots of small perfect cubes (e.g.,  $\sqrt[3]{64} = 4$ )
- ☐ Understand the connections between proportional relationships, lines, and linear equations
- ☐ Graph proportional relationships and interpret the unit rate as the *slope* (how steep or flat a line is)
- ☐ Analyze and solve linear equations (equations that make a straight line when they are graphed, such as  $y=2x+1$ ) and systems of linear equations involving two variables
- ☐ Define, evaluate, and compare functions, and use functions to model relationships between quantities
- ☐ Understand that a function is a rule that assigns to each value of  $x$  exactly one value of  $y$ , such as  $y=2x$ , a rule that would yield such ordered pairs as  $(-2,-4)$ ,  $(3,6)$ , and  $(4,8)$
- ☐ Compare the properties of two functions represented in different ways (e.g., table, graph, equation, description)

- ☐ Use physical models, transparencies, or other tools to show that similar objects have the same shape but different sizes (e.g., a small square magnified into a larger square) and determine congruence (when shapes are of equal size and shape)
- ☐ Verify the properties of rotations, reflections, and translations and describe their effects on two-dimensional figures using coordinates
- ☐ Learn and apply the Pythagorean Theorem (an equation relating the lengths of the sides of a right triangle:  $a^2 + b^2 = c^2$ )
- ☐ Solve problems involving the volume of cylinders, cones, and spheres
- ☐ Investigate patterns of association and analysis of two variables

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 eighth 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>