

# **Barren County Schools**

## **4<sup>th</sup> Grade**



# **District Curriculum**

**2017 update**

# **Barren County Schools**

## **Language Arts Curriculum**

# Barren County Schools 4<sup>th</sup> Grade Curriculum 2017 Update

## READING STANDARDS LITERATURE

### **Key Ideas**

1. Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.
2. Determine a theme of a story, drama, or poem from details in the text; summarize the text.
3. Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text (e.g., a character's thoughts, words, or actions).

### **Craft and Structure**

4. Determine the meaning of words and phrases as they are used in a text, including those that allude to significant characters found in mythology (e.g., Herculean).
5. Explain major differences between poems, drama, and prose, and refer to the structural elements of poems (e.g., verse, rhythm, meter) and drama (e.g., casts of characters, settings, descriptions, dialogue, stage directions) when writing or speaking about a text.
6. Compare and contrast the point of view from which different stories are narrated, including the difference between first- and third-person narrations.

### **Integration of Knowledge and Ideas**

7. Make connections between the text of a story or drama and a visual or oral presentation of the text, identifying where each version reflects specific descriptions and directions in the text.
8. (Not applicable to literature)
9. Compare and contrast the treatment of similar themes and topics (e.g., opposition of good and evil) and patterns of events (e.g., the quest) in stories, myths, and traditional literature from different cultures.

### **Range of Reading and Level of Text Complexity**

10. By the end of the year, read and comprehend literature, including stories, dramas, and poetry, in the grades 4–5 text complexity band proficiently, with scaffolding as needed at the high end of the range.

## READING STANDARDS FOR INFORMATIONAL TEXT

### **Key Ideas and Details**

1. Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.
2. Determine the main idea of a text and explain how it is supported by key details; summarize the text.
3. Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text.

### **Craft and Structure**

4. Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.
5. Describe the overall structure (e.g., chronology, comparison, cause/effect, problem/solution) of events, ideas, concepts, or information in a text or part of a text.
6. Compare and contrast a firsthand and secondhand account of the same event or topic; describe the differences in focus and the information provided.

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## Integration of Knowledge and Ideas

7. Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.
8. Explain how an author uses reasons and evidence to support particular points in a text.
9. Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably.

## Range of Reading and Level of Text Complexity

10. By the end of year, read and comprehend informational texts, including history/social studies, science, and technical texts, in the grades 4–5 text complexity band proficiently, with scaffolding as needed at the high end of the range.

## READING STANDARDS: FOUNDATIONAL SKILLS

### Phonics and Word Recognition

3. Know and apply grade-level phonics and word analysis skills in decoding words.
  - a. Use combined knowledge of all letter-sound correspondences, syllabication patterns, and morphology (e.g., roots and affixes) to read accurately unfamiliar multisyllabic words in context and out of context.

### Fluency

4. Read with sufficient accuracy and fluency to support comprehension.
  - a. Read on-level text with purpose and understanding.
  - b. Read on-level prose and poetry orally with accuracy, appropriate rate, and expression on successive readings.
  - c. Use context to confirm or self-correct word recognition and understanding, rereading as necessary.

## WRITING STANDARDS

### Text Types and Purposes

1. Write opinion pieces on topics or texts, supporting a point of view with reasons and information.
  - a. Introduce a topic or text clearly, state an opinion, and create an organizational structure in which related ideas are grouped to support the writer's purpose.
  - b. Provide reasons that are supported by facts and details.
  - c. Link opinion and reasons using words and phrases (e.g., for instance, in order to, in addition).
  - d. Provide a concluding statement or section related to the opinion presented.
2. Write informative/explanatory texts to examine a topic and convey ideas and information clearly.
  - a. Introduce a topic clearly and group related information in paragraphs and sections; include formatting (e.g., headings), illustrations, and multimedia when useful to aiding comprehension.
  - b. Develop the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic.
  - c. Link ideas within categories of information using words and phrases (e.g., another, for example, also, because).
  - d. Use precise language and domain-specific vocabulary to inform about or explain the topic.

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- e. Provide a concluding statement or section related to the information or explanation presented.
3. Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.
  - a. Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally.
  - b. Use dialogue and description to develop experiences and events or show the responses of characters to situations.
  - c. Use a variety of transitional words and phrases to manage the sequence of events.
  - d. Use concrete words and phrases and sensory details to convey experiences and events precisely.
  - e. Provide a conclusion that follows from the narrated experiences or events.

### Production and Distribution of Writing

4. Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)
5. With guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, and editing. (Editing for conventions should demonstrate command of Language standards 1–3 up to and including grade 4 on pages 28 and 29.)
6. With some guidance and support from adults, use technology, including the Internet, to produce and publish writing as well as to interact and collaborate with others; demonstrate sufficient command of keyboarding skills to type a minimum of one page in a single sitting.

### Research to Build and Present Knowledge

7. Conduct short research projects that build knowledge through investigation of different aspects of a topic.
8. Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of sources.
9. Draw evidence from literary or informational texts to support analysis, reflection, and research.
  - a. Apply grade 4 Reading standards to literature (e.g., “Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text [e.g., a character’s thoughts, words, or actions].”).
  - b. Apply grade 4 Reading standards to informational texts (e.g., “Explain how an author uses reasons and evidence to support particular points in a text”).

### Range of Writing

10. Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.

## SPEAKING AND LISTENING

### Comprehension and Collaboration

1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 4 topics and texts, building on others’ ideas and expressing their own clearly.
  - a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.
  - b. Follow agreed-upon rules for discussions and carry out assigned roles.
  - c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.

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- d. Review the key ideas expressed and explain their own ideas and understanding in light of the discussion.
2. Paraphrase portions of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.
3. Identify the reasons and evidence a speaker provides to support particular points.

## Presentation of Knowledge and Ideas

4. Report on a topic or text, tell a story, or recount an experience in an organized manner, using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.
5. Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes.
6. Differentiate between contexts that call for formal English (e.g., presenting ideas) and situations where informal discourse is appropriate (e.g., small-group discussion); use formal English when appropriate to task and situation. (See grade 4 Language standards 1 on pages 28 and 29 for specific expectations.)

# LANGUAGE

## Conventions of Standard English

1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
  - a. Use relative pronouns (who, whose, whom, which, that) and relative adverbs (where, when, why).
  - b. Form and use the progressive (e.g., I was walking; I am walking; I will be walking) verb tenses.
  - c. Use modal auxiliaries (e.g., can, may, must) to convey various conditions.
  - d. Order adjectives within sentences according to conventional patterns (e.g., a small red bag rather than a red small bag).
  - e. Form and use prepositional phrases.
  - f. Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons.\*
  - g. Correctly use frequently confused words (e.g., to, too, two; there, their).\*
2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.
  - a. Use correct capitalization.
  - b. Use commas and quotation marks to mark direct speech and quotations from a text.
  - c. Use a comma before a coordinating conjunction in a compound sentence.
  - d. Spell grade-appropriate words correctly, consulting references as needed.

## Knowledge of Language

3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
  - a. Choose words and phrases to convey ideas precisely.\*
  - b. Choose punctuation for effect.\*
  - c. Differentiate between contexts that call for formal English (e.g., presenting ideas) and situations where informal discourse is appropriate (e.g., small-group discussion).

## Vocabulary Acquisition and Use

4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 4 reading and content, choosing flexibly from a range of strategies.
  - a. Use context (e.g., definitions, examples, or restatements in text) as a clue to the meaning of a word or phrase.

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- b. Use common, grade-appropriate Greek and Latin affixes and roots as clues to the meaning of a word (e.g., telegraph, photograph, autograph).
  - c. Consult reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation and determine or clarify the precise meaning of key words and phrases.
5. Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.
- a. Explain the meaning of simple similes and metaphors (e.g., as pretty as a picture) in context.
  - b. Recognize and explain the meaning of common idioms, adages, and proverbs.
  - c. Demonstrate understanding of words by relating them to their opposites (antonyms) and to words with similar but not identical meanings (synonyms).
6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases, including those that signal precise actions, emotions, or states of being (e.g., quizzed, whined, stammered) and that are basic to a particular topic (e.g., wildlife, conservation, and endangered when discussing animal preservation).

### \*Penmanship/Handwriting

(\*Although not KCAS, legible penmanship, is an expectation and should be taught and reinforced throughout elementary school)  
Write smoothly and legibly in cursive, forming letters and words that can be easily read by others. Write in cursive 2<sup>nd</sup> Semester

# **Barren County Schools**

# **Math Curriculum**

## Operations and Algebraic Thinking

### Use the four operations with whole numbers to solve problems.

- 4.OA.1: Interpret a multiplication equation as a comparison, e.g., interpret  $35 = 5 \times 7$  as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.
- 4.OA.2: Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison. (Note: See Glossary, Table 2.)
- 4.OA.3: Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

### Gain familiarity with factors and multiples.

- 4.OA.4: Find all factor pairs for a whole number in the range 1–100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1–100 is prime or composite.

### Generate and analyze patterns.

- 4.OA.5: Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. *For example, given the rule “Add 3” and the starting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate between odd and even numbers. Explain informally why the numbers will continue to alternate in this way.*

## Number and Operations in Base Ten

*Note: Grade 4 expectations in this domain are limited to whole numbers less than or equal to 1,000,000.*

### Generalize place value understanding for multi-digit whole numbers.

- 4.NBT.1: Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. *For example, recognize that  $700 \div 70 = 10$  by applying concepts of place value and division.*
- 4.NBT.2: Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using  $>$ ,  $=$ , and  $<$  symbols to record the results of comparisons.
- 4.NBT.3: Use place value understanding to round multi-digit whole numbers to any place.

### Use place value understanding and properties of operations to perform multi-digit arithmetic.

- 4.NBT.4: Fluently add and subtract multi-digit whole numbers using the standard algorithm.
- 4.NBT.5: Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
- 4.NBT.6: Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

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## Number and Operations – Fractions

*Note: Grade 4 expectations in this domain are limited to fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12, & 100.*

### Extend understanding of fraction equivalence and ordering.

- 4.NF.1: Explain why a fraction  $a/b$  is equivalent to a fraction  $(n \times a)/(n \times b)$  by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.
- 4.NF.2: Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as  $1/2$ . Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols  $>$ ,  $=$ , or  $<$ , and justify the conclusions, e.g., by using a visual fraction model.

### Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

- 4.NF.3: Understand a fraction  $a/b$  with  $a > 1$  as a sum of fractions  $1/b$ .
- Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.
  - Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. Examples:  $3/8 = 1/8 + 1/8 + 1/8$ ;  $3/8 = 1/8 + 2/8$ ;  $2 1/8 = 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8$ .
  - Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.
  - Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.
- 4.NF.4: Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.
- Understand a fraction  $a/b$  as a multiple of  $1/b$ . For example, use a visual fraction model to represent  $5/4$  as the product  $5 \times (1/4)$ , recording the conclusion by the equation  $5/4 = 5 \times (1/4)$ .
  - Understand a multiple of  $a/b$  as a multiple of  $1/b$ , and use this understanding to multiply a fraction by a whole number. For example, use a visual fraction model to express  $3 \times (2/5)$  as  $6 \times (1/5)$ , recognizing this product as  $6/5$ . (In general,  $n \times (a/b) = (n \times a)/b$ .)
  - Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. For example, if each person at a party will eat  $3/8$  of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?

### Understand decimal notation for fractions, and compare decimal fractions.

- 4.NF.5: Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. For example, express  $3/10$  as  $30/100$ , and add  $3/10 + 4/100 = 34/100$ . (Note: Students who can generate equivalent fractions can develop strategies for adding fractions with unlike denominators in general. But addition and subtraction with unlike denominators in general is not a requirement at this grade.)
- 4.NF.6: Use decimal notation for fractions with denominators 10 or 100. For example, rewrite  $0.62$  as  $62/100$ ; describe a length as  $0.62$  meters; locate  $0.62$  on a number line diagram.
- 4.NF.7: Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols  $>$ ,  $=$ , or  $<$ , and justify the conclusions, e.g., by using a visual model.

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## Measurement and Data

### Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

- 4.MD.1: Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. *For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...*
- 4.MD.2: Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.
- 4.MD.3: Apply the area and perimeter formulas for rectangles in real world and mathematical problems. *For example, find the width of a rectangular room given the area of the flooring and the length, by viewing the area formula as a multiplication equation with an unknown factor.*

### Represent and interpret data.

- 4.MD.4: Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving addition and subtraction of fractions by using information presented in line plots. *For example, from a line plot find and interpret the difference in length between the longest and shortest specimens in an insect collection.*

### Geometric measurement: understand concepts of angle and measure angles.

- 4.MD.5: Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement:
- An angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle. An angle that turns through  $1/360$  of a circle is called a “one-degree angle,” and can be used to measure angles.
  - An angle that turns through  $n$  one-degree angles is said to have an angle measure of  $n$  degrees.
- 4.MD.6: Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.
- 4.MD.7: Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.

## Geometry

### Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

- 4.G.1: Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.
- 4.G.2: Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.
- 4.G.3: Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.

# **Barren County Schools**

# **Science Curriculum**

## 4. Energy

### 4. Energy

Students who demonstrate understanding can:	
4-PS3-1.	Use evidence to construct an explanation relating the speed of an object to the energy of that object. [Assessment Boundary: Assessment does not include quantitative measures of changes in the speed of an object or on any precise or quantitative definition of energy.]
4-PS3-2.	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents. [Assessment Boundary: Assessment does not include quantitative measurements of energy.]
4-PS3-3.	Ask questions and predict outcomes about the changes in energy that occur when objects collide. [Clarification Statement: Emphasis is on the change in the energy due to the change in speed, not on the forces, as objects interact.] [Assessment Boundary: Assessment does not include quantitative measurements of energy.]
4-PS3-4.	Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.* [Clarification Statement: Examples of devices could include electric circuits that convert electrical energy into motion energy of a vehicle, light, or sound; and, a passive solar heater that converts light into heat. Examples of constraints could include the materials, cost, or time to design the device.] [Assessment Boundary: Devices should be limited to those that convert motion energy to electric energy or use stored energy to cause motion or produce light or sound.]
4-ESS3-1.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment. [Clarification Statement: Examples of renewable energy resources could include wind energy, water behind dams, and sunlight; nonrenewable energy resources are fossil fuels and fissile materials. Examples of environmental effects could include loss of habitat due to dams, loss of habitat due to surface mining, and air pollution from burning of fossil fuels.]

The performance expectations above were developed using the following elements from the NRC document *A Framework for K-12 Science Education*:

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
<b>Asking Questions and Defining Problems</b> Asking questions and defining problems in grades 3–5 builds on grades K–2 experiences and progresses to specifying qualitative relationships. <ul style="list-style-type: none"><li>• Ask questions that can be investigated and predict reasonable outcomes based on patterns such as cause and effect relationships. (4-PS3-3)</li></ul>	<b>PS3.A: Definitions of Energy</b> <ul style="list-style-type: none"><li>• The faster a given object is moving, the more energy it possesses. (4-PS3-1)</li><li>• Energy can be moved from place to place by moving objects or through sound, light, or electric currents. (4-PS3-2),(4-PS3-3)</li></ul> <b>PS3.B: Conservation of Energy and Energy Transfer</b> <ul style="list-style-type: none"><li>• Energy is present whenever there are moving objects, sound, light, or heat. When objects collide, energy can be transferred from one object to another, thereby changing their motion. In such collisions, some energy is typically also transferred to the surrounding air; as a result, the air gets heated and sound is produced. (4-PS3-2),(4-PS3-3)</li><li>• Light also transfers energy from place to place. (4-PS3-2)</li><li>• Energy can also be transferred from place to place by electric currents, which can then be used locally to produce motion, sound, heat, or light. The currents may have been produced to begin with by transforming the energy of motion into electrical energy. (4-PS3-2),(4-PS3-4)</li></ul> <b>PS3.C: Relationship Between Energy and Forces</b> <ul style="list-style-type: none"><li>• When objects collide, the contact forces transfer energy so as to change the objects' motions. (4-PS3-3)</li></ul> <b>PS3.D: Energy in Chemical Processes and Everyday Life</b> <ul style="list-style-type: none"><li>• The expression "produce energy" typically refers to the conversion of stored energy into a desired form for practical use. (4-PS3-4)</li></ul>	<b>Cause and Effect</b> <ul style="list-style-type: none"><li>• Cause and effect relationships are routinely identified and used to explain change. (4-ESS3-1)</li></ul> <b>Energy and Matter</b> <ul style="list-style-type: none"><li>• Energy can be transferred in various ways and between objects. (4-PS3-1), (4-PS3-2),(4-PS3-3),(4-PS3-4)</li></ul>
<b>Planning and Carrying Out Investigations</b> Planning and carrying out investigations to answer questions or test solutions to problems in 3–5 builds on K–2 experiences and progresses to include investigations that control variables and provide evidence to support explanations or design solutions. <ul style="list-style-type: none"><li>• Make observations to produce data to serve as the basis for evidence for an explanation of a phenomenon or test a design solution. (4-PS3-2)</li></ul>		<b>Connections to Engineering, Technology, and Applications of Science</b>
<b>Constructing Explanations and Designing Solutions</b> Constructing explanations and designing solutions in 3–5 builds on K–2 experiences and progresses to the use of evidence in constructing explanations that specify variables that describe and predict phenomena and in designing multiple solutions to design problems. <ul style="list-style-type: none"><li>• Use evidence (e.g., measurements, observations, patterns) to construct an explanation. (4-PS3-1)</li><li>• Apply scientific ideas to solve design problems. (4-PS3-4)</li></ul>		<b>Interdependence of Science, Engineering, and Technology</b> <ul style="list-style-type: none"><li>• Knowledge of relevant scientific concepts and research findings is important in engineering. (4-ESS3-1)</li></ul>
<b>Obtaining, Evaluating, and Communicating Information</b> Obtaining, evaluating, and communicating information in 3–5 builds on K–2 experiences and progresses to evaluate the merit and accuracy of ideas and methods. <ul style="list-style-type: none"><li>• Obtain and combine information from books and other reliable media to explain phenomena. (4-ESS3-1)</li></ul>		<b>Influence of Engineering, Technology, and Science on Society and the Natural World</b> <ul style="list-style-type: none"><li>• Over time, people's needs and wants change, as do their demands for new and improved technologies. (4-ESS3-1)</li><li>• Engineers improve existing technologies or develop new ones. (4-PS3-4)</li></ul>
<i>Connections to other DCIs in fourth grade: N/A</i>		<b>Connections to Nature of Science</b>
<i>Articulation of DCIs across grade-levels: K.PS2.B (4-PS3-3); K.ETS1.A (4-PS3-4); 2.ETS1.B (4-PS3-4); 3.PS2.A (4-PS3-3); 5.PS3.D (4-PS3-4); 5.LS1.C (4-PS3-4); 5.ESS3.C (4-ESS3-1); MS.PS2.A (4-PS3-3); MS.PS2.B (4-PS3-2); MS.PS3.A (4-PS3-1),(4-PS3-2),(4-PS3-3),(4-PS3-4); MS.PS3.B (4-PS3-2),(4-PS3-3),(4-PS3-4); MS.PS3.C (4-PS3-3); MS.PS3.D (4-ESS3-1); MS.PS4.B (4-PS3-2); MS.ESS2.A (4-ESS3-1); MS.ESS3.A (4-ESS3-1); MS.ESS3.C (4-ESS3-1); MS.ESS3.D (4-ESS3-1); MS.ETS1.B (4-PS3-4); MS.ETS1.C (4-PS3-4)</i>		

#### Kentucky Academic Standards Connections:

##### ELA/Literacy –

- RI.4.1 Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text. (4-PS3-1)
- RI.4.3 Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text. (4-PS3-1)
- RI.4.9 Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably. (4-PS3-1)
- W.4.2 Write informative/explanatory texts to examine a topic and convey ideas and information clearly. (4-PS3-1)
- W.4.7 Conduct short research projects that build knowledge through investigation of different aspects of a topic. (4-PS3-2),(4-PS3-3),(4-PS3-4),(4-ESS3-1)
- W.4.8 Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of sources. (4-PS3-1),(4-PS3-2),(4-PS3-3),(4-PS3-4),(4-ESS3-1)
- W.4.9 Draw evidence from literary or informational texts to support analysis, reflection, and research. (4-PS3-1),(4-ESS3-1)

##### Mathematics –

- MP.2 Reason abstractly and quantitatively. (4-ESS3-1)
- MP.4 Model with mathematics. (4-ESS3-1)
- 4.OA.A.1 Interpret a multiplication equation as a comparison, e.g., interpret  $35 = 5 \times 7$  as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations. (4-ESS3-1)
- 4.OA.A.3 Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. (4-PS3-4)

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## 4. Waves: Waves and Information

<b>4. Waves: Waves and Information</b>		
Students who demonstrate understanding can:		
<b>4-PS4-1.</b> Develop a model of waves to describe patterns in terms of amplitude and wavelength and that waves can cause objects to move. [Clarification Statement: Examples of models could include diagrams, analogies, and physical models using wire to illustrate wavelength and amplitude of waves.] [Assessment Boundary: Assessment does not include interference effects, electromagnetic waves, non-periodic waves, or quantitative models of amplitude and wavelength.]		
<b>4-PS4-3.</b> Generate and compare multiple solutions that use patterns to transfer information.* [Clarification Statement: Examples of solutions could include drums sending coded information through sound waves, using a grid of 1's and 0's representing black and white to send information about a picture, and using Morse code to send text.]		
The performance expectations above were developed using the following elements from the NRC document <i>A Framework for K-12 Science Education</i> :		
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
<b>Developing and Using Models</b> Modeling in 3–5 builds on K–2 experiences and progresses to building and revising simple models and using models to represent events and design solutions. <ul style="list-style-type: none"> <li>Develop a model using an analogy, example, or abstract representation to describe a scientific principle. (4-PS4-1)</li> </ul> <b>Constructing Explanations and Designing Solutions</b> Constructing explanations and designing solutions in 3–5 builds on K–2 experiences and progresses to the use of evidence in constructing explanations that specify variables that describe and predict phenomena and in designing multiple solutions to design problems. <ul style="list-style-type: none"> <li>Generate and compare multiple solutions to a problem based on how well they meet the criteria and constraints of the design solution. (4-PS4-3)</li> </ul> <p><i>Connections to Nature of Science</i></p> <b>Scientific Knowledge is Based on Empirical Evidence</b> <ul style="list-style-type: none"> <li>Science findings are based on recognizing patterns. (4-PS4-1)</li> </ul>	<b>PS4.A: Wave Properties</b> <ul style="list-style-type: none"> <li>Waves, which are regular patterns of motion, can be made in water by disturbing the surface. When waves move across the surface of deep water, the water goes up and down in place; there is no net motion in the direction of the wave except when the water meets a beach. (<i>Note: This grade band endpoint was moved from K–2.</i>) (4-PS4-1)</li> <li>Waves of the same type can differ in amplitude (height of the wave) and wavelength (spacing between wave peaks). (4-PS4-1)</li> </ul> <b>PS4.C: Information Technologies and Instrumentation</b> <ul style="list-style-type: none"> <li>Digitized information transmitted over long distances without significant degradation. High-tech devices, such as computers or cell phones, can receive and decode information—convert it from digitized form to voice—and vice versa. (4-PS4-3)</li> </ul> <b>ETS1.C: Optimizing The Design Solution</b> <ul style="list-style-type: none"> <li>Different solutions need to be tested in order to determine which of them best solves the problem, given the criteria and the constraints. (<i>secondary to 4-PS4-3</i>)</li> </ul>	<b>Patterns</b> <ul style="list-style-type: none"> <li>Similarities and differences in patterns can be used to sort and classify natural phenomena. (4-PS4-1)</li> <li>Similarities and differences in patterns can be used to sort and classify designed products. (4-PS4-3)</li> </ul> <hr/> <p><i>Connections to Engineering, Technology, and Applications of Science</i></p> <b>Interdependence of Science, Engineering, and Technology</b> <ul style="list-style-type: none"> <li>Knowledge of relevant scientific concepts and research findings is important in engineering. (4-PS4-3)</li> </ul>
<i>Connections to other DCIs in fourth grade: 4.PS3.A (4-PS4-1); 4.PS3.B (4-PS4-1); 4.ETS1.A (4-PS4-3)</i>		
<i>Articulation of DCIs across grade-levels: K.ETS1.A (4-PS4-3); 1.PS4.C (4-PS4-3); 2.ETS1.B (4-PS4-3); 2.ETS1.C (4-PS4-3); 3.PS2.A (4-PS4-3); MS.PS4.A (4-PS4-1); MS.PS4.C (4-PS4-3); MS.ETS1.B (4-PS4-3)</i>		
<b>Kentucky Academic Standards Connections:</b> <b>ELA/Literacy –</b> <b>RI.4.1</b> Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text. (4-PS4-3) <b>RI.4.9</b> Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably. (4-PS4-3) <b>SL.4.5</b> Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes. (4-PS4-1) <b>Mathematics –</b> <b>MP.4</b> Model with mathematics. (4-PS4-1) <b>4.G.A.1</b> Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures. (4-PS4-1)		

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## 4. Structure, Function, and Information Processing

### 4. Structure, Function, and Information Processing

Students who demonstrate understanding can:

- 4-PS4-2.** Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.  
 [Assessment Boundary: Assessment does not include knowledge of specific colors reflected and seen, the cellular mechanisms of vision, or how the works.]
- retina**  
**4-LS1-1.** Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction. [Clarification Statement: Examples of structures could include thorns, stems, roots, petals, heart, stomach, lung, brain, and skin.] [Assessment Boundary: Assessment is limited to macroscopic structures within plant and animal systems.]
- colored**  
**4-LS1-2.** Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways. [Clarification Statement: Emphasis is on systems of information transfer.] [Assessment Boundary: Assessment does not include the mechanisms by which the brain stores and recalls information or the mechanisms of how sensory receptors function.]

The performance expectations above were developed using the following elements from the NRC document *A Framework for K-12 Science Education*:

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
<b>Developing and Using Models</b> Modeling in 3–5 builds on K–2 experiences and progresses to building and revising simple models and using models to represent events and design solutions. <ul style="list-style-type: none"> <li>• Develop a model to describe phenomena. (4-PS4-2)</li> <li>• Use a model to test interactions concerning the functioning of a natural system. (4-LS1-2)</li> </ul>	<b>PS4.B: Electromagnetic Radiation</b> <ul style="list-style-type: none"> <li>• An object can be seen when light reflected from its surface enters the eyes. (4-PS4-2)</li> </ul> <b>LS1.A: Structure and Function</b> <ul style="list-style-type: none"> <li>• Plants and animals have both internal and external structures that serve various functions in growth, survival, behavior, and reproduction. (4-LS1-1)</li> </ul> <b>LS1.D: Information Processing</b> <ul style="list-style-type: none"> <li>• Different sense receptors are specialized for particular kinds of information, which may be then processed by the animal's brain. Animals are able to use their perceptions and memories to guide their actions. (4-LS1-2)</li> </ul>	<b>Cause and Effect</b> <ul style="list-style-type: none"> <li>• Cause and effect relationships are routinely identified. (4-PS4-2)</li> </ul> <b>Systems and System Models</b> <ul style="list-style-type: none"> <li>• A system can be described in terms of its components and their interactions. (4-LS1-1), (LS1-2)</li> </ul>
<b>Engaging in Argument from Evidence</b> Engaging in argument from evidence in 3–5 builds on K–2 experiences and progresses to critiquing the scientific explanations or solutions proposed by peers by citing relevant evidence about the natural and designed world(s). <ul style="list-style-type: none"> <li>• Construct an argument with evidence, data, and/or a model. (4-LS1-1)</li> </ul>		

*Connections to other DCIs in this grade-level:* N/A

*Articulation of DCIs across grade-levels:* **1.PS4.B** (4-PS4-2); **1.LS1.A** (4-LS1-1); **1.LS1.D** (4-LS1-2); **3.LS3.B** (4-LS1-1); **MS.PS4.B** (4-PS4-2); **MS.LS1.A** (4-LS1-1),(4-LS1-2); **MS.LS1.D** (4-PS4-2),(4-LS1-2)

*Kentucky Academic Standards Connections:*

*ELA/Literacy –*

- W.4.1** Write opinion pieces on topics or texts, supporting a point of view with reasons and information. (4-LS1-1)  
**SL.4.5** Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes. (4-PS4-2),(4-LS1-2)

*Mathematics –*

- MP.4** Model with mathematics. (4-PS4-2)  
**4.G.A.1** Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures. (4-PS4-2)  
**4.G.A.3** Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded across the line into matching parts. Identify line symmetric figures and draw lines of symmetry. (4-LS1-1)

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## 4. Earth's Systems: Processes that Shape the Earth

### 4. Earth's Systems: Processes that Shape the Earth

Students who demonstrate understanding can:

- 4-ESS1-1.** Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time. [Clarification Statement: Examples of evidence from patterns could include rock layers with shell fossils above rock layers with plant fossils and no shells, indicating a change from water to land over time; and, a canyon with different rock layers in the walls and a river in the bottom, indicating that over time a river cut through the rock.] [Assessment Boundary: Assessment does not include specific knowledge of the mechanism of rock formation or memorization of specific rock formations and layers. Assessment is limited to relative time.]
- 4-ESS2-1.** Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation. [Clarification Statement: Examples of variables to test could include angle of slope in the downhill movement of water, amount of vegetation, speed of wind, relative rate of deposition, cycles of freezing and thawing of water, cycles of heating and cooling, and volume of water flow.] [Assessment Boundary: Assessment is limited to a single form of weathering or erosion.]
- 4-ESS2-2.** Analyze and interpret data from maps to describe patterns of Earth's features. [Clarification Statement: Maps can include topographic maps of Earth's land and ocean floor, as well as maps of the locations of mountains, continental boundaries, volcanoes, and earthquakes.]
- 4-ESS3-2.** Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.\* [Clarification Statement: Examples of solutions could include designing an earthquake resistant building and improving monitoring of volcanic activity.] [Assessment Boundary: Assessment is limited to earthquakes, floods, tsunamis, and volcanic eruptions.]

The performance expectations above were developed using the following elements from the NRC document *A Framework for K-12 Science Education*:

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
<b>Planning and Carrying Out Investigations</b> Planning and carrying out investigations to answer questions or test solutions to problems in 3–5 builds on K–2 experiences and progresses to include investigations that control variables and provide evidence to support explanations or design solutions. <ul style="list-style-type: none"> <li>Make observations and/or measurements to produce data to serve as the basis for evidence for an explanation of a phenomenon. (4-ESS2-1)</li> </ul> <b>Analyzing and Interpreting Data</b> Analyzing data in 3–5 builds on K–2 experiences and progresses to introducing quantitative approaches to collecting data and conducting multiple trials of qualitative observations. When possible and feasible, digital tools should be used. <ul style="list-style-type: none"> <li>Analyze and interpret data to make sense of phenomena using logical reasoning. (4-ESS2-2)</li> </ul> <b>Constructing Explanations and Designing Solutions</b> Constructing explanations and designing solutions in 3–5 builds on K–2 experiences and progresses to the use of evidence in constructing explanations that specify variables that describe and predict phenomena and in designing multiple solutions to design problems. <ul style="list-style-type: none"> <li>Identify the evidence that supports particular points in an explanation. (4-ESS1-1)</li> <li>Generate and compare multiple solutions to a problem based on how well they meet the criteria and constraints of the design solution. (4-ESS3-2)</li> </ul>	<b>ESS1.C: The History of Planet Earth</b> <ul style="list-style-type: none"> <li>Local, regional, and global patterns of rock formations reveal changes over time due to earth forces, such as earthquakes. The presence and location of certain fossil types indicate the order in which rock layers were formed. (4-ESS1-1)</li> </ul> <b>ESS2.A: Earth Materials and Systems</b> <ul style="list-style-type: none"> <li>Rainfall helps to shape the land and affects the types of living things found in a region. Water, ice, wind, living organisms, and gravity break rocks, soils, and sediments into smaller particles and move them around. (4-ESS2-1)</li> </ul> <b>ESS2.B: Plate Tectonics and Large-Scale System Interactions</b> <ul style="list-style-type: none"> <li>The locations of mountain ranges, deep ocean trenches, ocean floor structures, earthquakes, and volcanoes occur in patterns. Most earthquakes and volcanoes occur in bands that are often along the boundaries between continents and oceans. Major mountain chains form inside continents or near their edges. Maps can help locate the different land and water features areas of Earth. (4-ESS2-2)</li> </ul> <b>ESS2.E: Biogeology</b> <ul style="list-style-type: none"> <li>Living things affect the physical characteristics of their regions. (4-ESS2-1)</li> </ul> <b>ESS3.B: Natural Hazards</b> <ul style="list-style-type: none"> <li>A variety of hazards result from natural processes (e.g., earthquakes, tsunamis, volcanic eruptions). Humans cannot eliminate the hazards but can take steps to reduce their impacts. (4-ESS3-2) (<i>Note: This Disciplinary Core Idea can also be found in 3.WC.</i>)</li> </ul> <b>ETS1.B: Designing Solutions to Engineering Problems</b> <ul style="list-style-type: none"> <li>Testing a solution involves investigating how well it performs under a range of likely conditions. (<i>secondary to 4-ESS3-2</i>)</li> </ul>	<b>Patterns</b> <ul style="list-style-type: none"> <li>Patterns can be used as evidence to support an explanation. (4-ESS1-1),(4-ESS2-2)</li> </ul> <b>Cause and Effect</b> <ul style="list-style-type: none"> <li>Cause and effect relationships are routinely identified, tested, and used to explain change. (4-ESS2-1),(4-ESS3-2)</li> </ul> <hr/> <b>Connections to Engineering, Technology, and Applications of Science</b> <hr/> <b>Influence of Engineering, Technology, and Science on Society and the Natural World</b> <ul style="list-style-type: none"> <li>Engineers improve existing technologies or develop new ones to increase their benefits, to decrease known risks, and to meet societal demands. (4-ESS3-2)</li> </ul> <hr/> <b>Connections to Nature of Science</b> <hr/> <b>Scientific Knowledge Assumes an Order and Consistency in Natural Systems</b> <ul style="list-style-type: none"> <li>Science assumes consistent patterns in natural systems. (4-ESS1-1)</li> </ul>

*Connections to other DCIs in fourth grade: 4.ETS1.C (4-ESS3-2)*

*Articulation of DCIs across grade-levels: K.ETS1.A (4-ESS3-2); 2.ESS1.C (4-ESS1-1),(4-ESS2-1); 2.ESS2.A (4-ESS2-1); 2.ESS2.B (4-ESS2-2); 2.ESS2.C (4-ESS2-2); 2.ETS1.B (4-ESS3-2); 2.ETS1.C (4-ESS3-2); 3.LS4.A (4-ESS1-1); 5.ESS2.A (4-ESS2-1); 5.ESS2.C (4-ESS2-2); MS.LS4.A (4-ESS1-1); MS.ESS1.C (4-ESS1-1),(4-ESS2-2); MS.ESS2.A (4-ESS1-1),(4-ESS2-2),(4-ESS3-2); MS.ESS2.B (4-ESS1-1),(4-ESS2-2); MS.ESS3.B (4-ESS3-2); MS.ETS1.B (4-ESS3-2)*

*Kentucky Academic Standards Connections:*

*ELA/Literacy –*

- RI.4.1** Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text. (4-ESS3-2)
- RI.4.7** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears. (4-ESS2-2)
- RI.4.9** Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably. (4-ESS3-2)
- W.4.7** Conduct short research projects that build knowledge through investigation of different aspects of a topic. (4-ESS1-1),(4-ESS2-1)
- W.4.8** Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of sources. (4-ESS1-1),(4-ESS2-1)
- W.4.9** Draw evidence from literary or informational texts to support analysis, reflection, and research. (4-ESS1-1)

*Mathematics –*

- MP.2** Reason abstractly and quantitatively. (4-ESS1-1),(4-ESS2-1),(4-ESS3-2)
- MP.4** Model with mathematics. (4-ESS1-1),(4-ESS2-1),(4-ESS3-2)
- MP.5** Use appropriate tools strategically. (4-ESS2-1)
- 4.MD.A.1** Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. (4-ESS1-1),(4-ESS2-1)
- 4.MD.A.2** Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale. (4-ESS2-1),(4-ESS2-2)
- 4.OA.A.1** Interpret a multiplication equation as a comparison, e.g., interpret  $35 = 5 \times 7$  as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations. (4-ESS3-2)

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# **Barren County Schools**

# **Social Studies Curriculum**

## Social Studies

### **Historical Perspective/Culture and Society**

#### **Kentucky**

##### **The Kentucky Frontier**

- Native Americans in Kentucky  
Paleo-Indian, Archaic Indians, Woodland, Late Prehistoric Period
- How Kentucky got its name
- Early Explorers such as Christopher Gist, Thomas Walker, James Harrod, Daniel Boone, Benjamin Logan, Simon Kenton, George Rogers Clark
- Early Settlements such as Fort Harrod, Logan's Fort, Fort Boonesborough
- Kentucky's statehood

#### **American**

##### **The American Revolution**

###### **Background: The French and Indian War**

- Also known as the Seven Years' War, part of an ongoing struggle between Britain and France for control of colonies in various regions around the world (in this case, in North America)
- Alliances with Native Americans
- The Battle of Quebec
- British victory gains territory but leaves Britain financially weakened
- The French and Indian War in Kentucky

###### **Causes and Provocations**

- British taxes, "No taxation without representation"
- Boston Massacre, Crispus Attucks
- Boston Tea Party
- The Intolerable Acts close the port of Boston and require Americans to provide quarters for British troops
- First Continental Congress protests to King George III

# Barren County Schools 4<sup>th</sup> Grade Curriculum 2017 Update

## The Revolution

- Paul Revere's ride, "No taxation without representation"
- Concord and Lexington: The "shot heard round the world" and Redcoats and Minute Men
- Bunker Hill
- Second Continental Congress: George Washington appointed commander in chief of the Continental Army
- Thomas Paine's Common Sense
- Declaration of Independence: Primarily written by Thomas Jefferson; adopted July 4, 1776; "We hold these truths to be self-evident, that all men are created equal, that they are endowed by their creator with certain unalienable Rights, that among these are Life, Liberty, and the pursuit of Happiness."
- Women in the Revolution: Elizabeth Freeman, Deborah Sampson, Phillis Wheatley, Molly Pitcher
- Loyalists (Tories)
- Victory at Saratoga, alliance with France
- European helpers (Lafayette, the French fleet, Bernardo de Galvez, Kosciusko, von Steuben)
- Valley Forge
- Benedict Arnold
- John Paul Jones: "I have not yet begun to fight."
- Nathan Hale: "I only regret that I have but one life to lose for my country."
- Cornwallis: surrender at Yorktown

## **Westward Expansion**

- Impact of Jackson Purchase on Kentucky (8 counties added to the size of Kentucky)

## **Civil War in Kentucky (From Statehood to Civil War)**

## **The Cultures of Kentucky**

- Early Native American
- Early Explorers and Settlers
- Farmers
- Kentucky's Strong Mix of Cultures (Diversity)

## **Kentucky Today**

## Geography

### **Geography: Spatial Sense (working with maps, globes, and other geographic tools)**

- Measure distances using map scales
- Read maps and globes using longitude and latitude, coordinates, degrees
- Prime Meridian (0degrees); Greenwich, England; International Date Line (180 degree line)
- Relief maps: elevations and depressions
- Develop mental map of US

# Barren County Schools 4<sup>th</sup> Grade Curriculum 2017 Update

## **Mountains and Mountain Ranges**

- Major mountain ranges and location  
North America: Rockies and Appalachians
- Highest mountain in US and location  
North America: McKinley

## **Kentucky Geography**

- Kentucky has 120 counties
- The land and how physical features shaped our states
- Climate of Kentucky
- Geographic Regions: Jackson Purchase, Pennyroyal, Western Coal Fields, Bluegrass, Eastern Coal Fields and Knobs
- Cultural or Human Regions of Kentucky

## **US Regions**

- Regions and their physical and human characteristics: New England, Mid-Atlantic, South, Midwest, Great Plains, Southwest, Pacific, Northwest
- Adapting to physical characteristics of regions
- Fifty states and capitals
- Unique places within regions
- Locate: Western Hemisphere, North America, Caribbean Sea, Gulf of Mexico
- The Gulf Stream, how it affects climate

# **Government**

## **Making a Constitutional Government in Kentucky**

### **The Constitution**

1. The separation and sharing of powers in American government: three branches of government
2. Checks and balances, limits on government power, veto

### **Levels and Functions of Government (National, State, and Local)**

1. Identify current government officials, including:
  - President and vice-president of the U.S.

## Barren County Schools 4<sup>th</sup> Grade Curriculum 2017 Update

- State governor
- 2. State governments: established by state constitutions (which are subordinate to the U.S. Constitution, the highest law in the land), like the national government, each state government has its legislative, executive, and officials
- 3. Local governments: purposes, functions, and officials
- 4. How government services are paid for (taxes on individuals and businesses, fees, tolls, etc.)
- 5. How people can participate in government

### The Government of Kentucky

- 1. The Kentucky Constitution
- 2. Constitution Square: Danville, State Capital: Frankfort
- 3. Levels of government (local, state, and national)
  - Local government:
    - city or town government (mayor or city manager)
    - county government (county judge executive, judges, and juries)
    - county seat
    - services of local government
- 4. Branches of government (Balance of Power)
  - Executive-governor
  - Legislative- the General Assembly
    - made up of:
      - House of Representatives-Legislators
      - Senate-Senators
  - Judicial-the courts
    - Supreme Court
    - Judges
    - Jury
- 5. Passing laws in Kentucky

### II. Early Presidents and Politics

- A. Define: cabinet and administration
- B. George Washington as the first President, Vice-President John Adams
- C. John Adams, second president, Abigail Adams
- D. National capitol established at Washington, D.C.

## Barren County Schools 4<sup>th</sup> Grade Curriculum 2017 Update

- E. Growth of political parties
- F. Arguments between Thomas Jefferson and Alexander Hamilton: two opposed Visions of America, as an agricultural or industrial society
- G. Modern-day system: two main parties (Democrats and Republicans), and independents
- H. Thomas Jefferson, third president
- I. Correspondence between Jefferson and Benjamin Banneker
- J. Jefferson as multifaceted leader (architect, inventor, musician, etc.)
- K. The Louisiana Purchase (review from grade 1) doubles the nations size and gains control of Mississippi River.
- L. James Madison, fourth president
- M. War of 1812 (briefly overview from grade 2)
- N. James Monroe, fifth president, the Monroe Doctrine
- O. John Quincy Adams, sixth president
- P. Andrew Jackson, seventh president
  - a. Popular military hero, Battle of New Orleans in War of 1812
  - b. Presidency of the "common man"
  - c. Indian removal policies

### **III. Reformers**

- A. Introduce children to some prominent people and movements in the ferment of social change in America prior to the Civil War:
  - 1. Abolitionists
  - 2. Dorothea Dix and the treatment of the insane
  - 3. Horace Mann and public schools
  - 3. Women's Rights
    - a) Seneca Falls convention
    - b) Elizabeth Cady Stanton
    - c) Lucretia Mott
    - d) Amelia Bloomer
    - e) Sojourner Truth

### **IV. Symbols and Figures**

Recognize and become familiar with the significance of KY symbols

## World History: Culture and Society

### Middle Ages

**Related fiction:** Robin Hood, St. George and the Dragon, King Arthur

Geographical features, such as rivers, mountains and large bodies of water, acted as both routes and barriers in the development of Europe.

- Rivers: Danube, Rhine, Rhone, and Oder
- Mountains: Alps, Pyrenees
- Iberian Peninsula: Spain and Portugal
- France
- Mediterranean Sea, North Sea, Baltic Sea
- British Isles: England, Ireland, Scotland, Wales, the English Channel

Various groups of nomadic people from the east and the north invaded Western Europe during the Middle Ages.

- Visigoths
- Huns
- Vandals
- Franks
- Angles
- Saxons

The term Middle Ages refers to the period after the decline of the Western Roman Empire and before the modern period.

The term Middle Ages refers to the period after the decline of the Western Roman Empire and before the modern period.

The Church became the greatest source of stability in the life of medieval Europeans.

Political concerns as much as doctrinal differences led to the split between the eastern and western Christian churches in 1054.

Feudalism was the political system of reciprocal responsibilities that developed in medieval Europe to enforce law and order.

The aspects of feudalism:

- Life on the manor
- Castles
- Lords
- Vassals
- Knights
- Freedmen
- Serfs
- Code of chivalry

## Barren County Schools 4<sup>th</sup> Grade Curriculum 2017 Update

- Knights
- Squires
- Pages

Manorialism was the economic system of medieval Europe.

The Normans under William the Conqueror invaded and took control of England in 1066.

The growth of towns due to the increasing importance of commerce in medieval Europe led to the weakening of feudalism and Manorialism.

- Guilds
- Apprentices

The development of constitutional government in England began with the signing of the Magna Carta.

Representative government in England began with the inauguration of Parliament in the second half of the 1200's.

### Economics

(Suggested material to use: *Entrepreneurs in Kentucky*)

- Review economics terms from K-3
- Compare/contrast goods and services and their effect on the economy.
- Compare/contrast consumers and producers and their effect on the economy.
- Master economics concepts they've learned so far.
- Master opportunity cost and supply-and-demand.
- Master the basic economic problem of scarcity and recognize how people use decision-making to solve the problem.
- Master that the U.S. economic system is based on free enterprise where businesses seek to make a profit by producing and selling goods and services.
- Master that economic systems can be large (U.S.) or small (individual and households)

## Barren County Schools 4<sup>th</sup> Grade Curriculum 2017 Update

- Introduce: renewable (can be made again) and non-renewable resources (can't be made again), production (the process of creating goods and services by combining human resources with other resources), consumption (using up of goods), distribution (the way the goods are shared with others) and credit (the ability to buy something which you can not pay for with the promise that you will pay that amount back and maybe more).
- Introduce that Kentucky's economic system has financial institutions in addition to banks.
- Introduce the importance of industry/technology on our system and how manufacturing affects the economy.
- Identify the importance of trade on Kentucky's economy.

# **Barren County Schools**

## **Practical Living**

## **Big Idea: Personal Wellness (Health Education)**

Wellness is maximum well-being, or total health. Personal wellness is a combination of physical, mental, emotional, spiritual and social well-being. It involves making behavioral choices and decisions each day that promote an individual's physical well-being, the prevention of illnesses and diseases and the ability to remain, physically, mentally, spiritually, socially and emotionally healthy.

### **Academic Expectations**

- 2.29** Students demonstrate skills that promote individual well-being and healthy family relationships.
- 2.31** Students demonstrate the knowledge and skills they need to remain physically healthy and to accept responsibility for their own physical well-being.
- 2.32** Students demonstrate strategies for becoming and remaining mentally and emotionally healthy.
- 3.2** Students demonstrate the ability to maintain a healthy lifestyle.
- 4.1** Students effectively use interpersonal skills.
- 4.4** Students demonstrate the ability to accept the rights and responsibilities for self and others.
- 5.1** Students use critical thinking skills such as analyzing, prioritizing, categorizing, evaluating and comparing to solve a variety of problems in real-life situations.
- 5.4** Students use a decision-making process to make informed decisions among options.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- responsibility to oneself promotes health enhancing behaviors.
- physical, emotional and social changes are normal and each individual is unique in the growth and development process.
- interpersonal skills and strategies can influence social, mental and emotional well-being and affect an individual's relationships.
- culture, media and use of technology (e.g., television, computers, MP3 Players, electronic/arcade games) can influence personal health.
- behavioral choices affect physical, mental, emotional and social well-being and can have positive or negative consequences on one's health.
- positive health habits prevent the spreading of diseases and injuries to self and others.
- self-management and coping strategies can enhance mental and emotional health.

### **Grade 4 Skills and Concepts – Personal and Physical Health**

*Students will*

- describe the relationship between personal health behaviors and individual well-being
- explain the characteristics of mental/emotional, social and physical health
- explain and exhibit responsibility to oneself and others
- describe how individual behaviors and choices of diet, exercise and rest affect the body

### **Grade 4 Skills and Concepts – Growth and Development**

*Students will*

- explain why growth and development are unique to each individual
- develop an awareness of the interrelatedness of body functions and the impact lifestyle choices has on body systems
- describe physical, social and emotional changes that occur during preadolescence

## **Big Idea: Personal Wellness (Health Education) – Continued**

### **Grade 4 Skills and Concepts – Social, Mental and Emotional Health**

*Students will*

- demonstrate social interaction skills by:
  - using etiquette, politeness, sharing and other social interaction skills
  - working and playing collaboratively in large and small groups
  - using appropriate means to express needs, wants and feelings
  - distinguishing between verbal and nonverbal communication
  - describing characteristics needed to be a responsible friend and family member
  - identifying social interaction skills that enhance individual health
- describe how goal setting can lead to personal achievement
- identify and describe common social and emotional problems (aggression, anxiety, depression)
- demonstrate the ability to apply a decision-making process to solve health issues and health problems
- identify self-management and coping strategies (goal setting, refusal skills, decision making and time management) that enhance health

### **Grade 4 Skills and Concepts – Family Health**

*Students will*

- describe how culture influences personal health behaviors
- describe ways technology and media influences thoughts, feelings and personal health
- explain how family traditions/values impact personal health practices
- explain how information from school and family influences health

### **Grade 4 Skills and Concepts – Communicable, Non-Communicable and Chronic Diseases Prevention**

*Students will*

- describe symptoms and treatments of:
  - communicable diseases (cold, strep throat and chicken pox)
  - non-communicable diseases (asthma, heart disease, diabetes, skin cancer)
- demonstrate an understanding of how to maintain a healthy body by:
  - explaining how body systems work together (e.g., digestive, circulatory and respiratory systems)
  - listing body defenses that fight pathogens
  - describing ways pathogens from the environment enter the body
  - identifying and explaining behaviors that promote personal hygiene (e.g., the use of grooming products) or can affect self and others in the prevention and spread of disease (e.g., hand washing, care of teeth and eyes, covering coughs and sneezes, sun protection)
  - describing reasons for regular visits to health care providers

### **Grade 4 Skills and Concepts – Alcohol, Tobacco and Other Drugs**

*Students will*

- demonstrate an understanding of the use and misuse of alcohol, tobacco and other drugs:
  - distinguish between the use and misuse of drugs, alcohol and tobacco and identify the effects each use might have on the body
  - describe their effects on physical, mental, emotional and social health (e.g., effects on family life)

## **Big Idea: Nutrition (Health Education)**

Proper nutrition is critical to good health. To maintain a healthy weight, good dietary habits and physical activity are essential. Nutritious foods are necessary for growth, development and maintenance of healthy bodies.

### **Academic Expectations**

- 2.30** Students evaluate consumer products and services and make effective consumer decisions.
- 2.31** Students demonstrate the knowledge and skills they need to remain physically healthy and to accept responsibility for their own physical well-being.
- 3.2** Students will demonstrate the ability to maintain a healthy lifestyle.
- 3.5** Students will demonstrate self-control and self-discipline.
- 5.1** Students use critical thinking skills such as analyzing, prioritizing, categorizing, evaluating and comparing to solve a variety of problems in real-life situations.
- 5.4** Students use decision-making process to make informed decisions among options.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- proper nutrition is essential to growth and development.
- nutrients provide energy for daily living.
- resources are available to assist in making nutritional choices.

### **Grade 4 Skills and Concepts**

*Students will*

- explain the role of the digestive system in nutrition
- describe the relationship between food choices in staying healthy
- explain how to use resources (e.g., Food Guide Pyramid (FGP), Dietary Guidelines for Americans) in making healthful food choices
- identify nutrients which are important to growth and development of healthy bodies
- identify and explain the nutritional information provided on food labels

## **Big Idea: Safety (Health Education)**

Accidents are a major cause of injury and death to children and adolescents. Unintentional injuries involving a motor vehicle, falls, drowning, fires, firearms and poisons can occur at home, school and work.

Safe behavior protects a person from danger and lessens the effects of harmful situations.

### **Academic Expectations**

- 2.31** Students demonstrate the knowledge and skills they need to remain physically healthy and to accept responsibility for their own physical well-being.
- 2.33** Students demonstrate the skills to evaluate and use services and resources available in their community.
- 3.2** Students will demonstrate the ability to maintain a healthy lifestyle.
- 4.3** Students individually demonstrate consistent, responsive and caring behavior.
- 4.4** Students demonstrate the ability to accept the rights and responsibilities for self and others.
- 5.1** Students use skills such as analyzing, prioritizing, categorizing, evaluating and comparing to solve a variety of problems in real-life situations.
- 5.4** Students use a decision-making process to make informed decisions among-options.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- safety practices and procedures help to prevent injuries and provide a safe environment.
- community resources are available to assist in hazardous situations.

### **Grade 4 Skills and Concepts**

*Students will*

- practice safety rules/procedures for crossing streets/highway, riding in cars and on buses and using playground equipment
- identify and explain ways to prevent injuries at home and at school (e.g., seat belts, helmets, knee pads, falls, poisonings) in a variety of situations
- explain and demonstrate school and home safety procedures (e.g., tornado, fire, earthquake drills)
- identify the effects injuries have on the body (e.g., skeletal system, skin, eyes)
- identify proper procedures (e.g., calling 911, Heimlich maneuver, stop, drop & roll, apply pressure) for dealing with a variety of emergency situations (e.g., choking, bleeding, burns)
- demonstrate awareness of how to avoid danger (e.g., fires, strangers) (e.g., through role plays, discussions, drawing)
- identify the available health and safety agencies in a community and the services they provide (e.g., health department, fire department, police, ambulance services)

## **Big Idea: Psychomotor Skills (Physical Education)**

Cognitive information can be used to understand and enhance the development of motor skills such as movement sequences and patterns. Individuals who understand their bodies and how to perform various movements will be safer and more productive in recreation and work activities. Development of psychomotor skills contributes to the development of social and cognitive skills.

### **Academic Expectations**

- 2.31** Students demonstrate the knowledge and skills they need to remain physically healthy and to accept responsibility for their own physical well-being.
- 2.34** Students perform physical movement's skills effectively in a variety of settings.
- 2.35** Students demonstrate knowledge and skills that promote physical activity and involvement in physical activity throughout lives.
- 4.1** Students effectively use interpersonal skills.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- spatial awareness, motor skills and movement patterns are needed to perform a variety of physical activities.
- movement concepts, principles and strategies apply to the learning and performance of physical activities.

### **Grade 4 Skills and Concepts**

*Students will*

- demonstrate a variety of locomotor and combination skills in a movement pattern
- use non-locomotor, locomotor and combination skills to demonstrate movements in creative sequences and in simple patterned dances, games and other activities
- demonstrate a variety of non-locomotor, locomotor and combination skills while participating in different games and sports
- develop manipulative skills of throwing, catching, kicking and striking while developing motor skills (e.g., sliding, running, jumping) for use in games and other activities that lead to more complex games and sports (e.g., basketball, volleyball, soccer, softball)
- demonstrate and explain how movement patterns are influenced by space, force and time
- willingly try new movement and skills

## **Big Idea: Lifetime Physical Wellness (Physical Education)**

Lifetime wellness is health-focused. The health-related activities and content utilized are presented to help students become more responsible for their overall health status and to prepare each student to demonstrate knowledge and skills that promote physical activity throughout their lives. Physical education uses physical activity as a means to help students acquire skills, fitness, knowledge and attitudes that contribute to their optimal development and well-being. Physical, mental, emotional and social health is strengthened by regular involvement in physical activities.

### **Academic Expectations**

- 2.31** Students demonstrate the knowledge and skills they need to remain physically healthy and to accept responsibility for their own physical well-being.
- 2.34** Students perform physical movement's skills effectively in a variety of settings.
- 2.35** Students demonstrate knowledge and skills that promote physical activity and involvement in physical activity throughout lives.
- 3.1** Students demonstrate positive growth in self-concept through appropriate tasks or projects.
- 3.2** Students demonstrate the ability to maintain a healthy lifestyle.
- 3.7** Students demonstrate the ability to learn on one's own.
- 4.2** Students use productive team membership skills.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- physical activity provides opportunities for social interaction, challenges and fun.
- participation in regular physical activity has physical, mental and social benefits.
- practice is a basic component for improving sport skills.
- rules impact the effective participation in physical activities.
- personal and social behavior that shows respect to self and others impacts enjoyment and safety in physical activity settings.
- regular participation in health-related, physical activity supports the goals of fitness and a healthier lifestyle throughout life.
- principles and techniques are used to improve physical fitness.

## **Big Idea: Lifetime Physical Wellness (Physical Education) – Continued**

### **Grade 4 Skills and Concepts**

*Students will*

- identify likes and dislikes connected with participating in sports and physical activities; explain how physical activity provides opportunities for enjoyment, challenge, self-expression and social interaction
- identify and engage in physical activities that promote physical fitness and health
- describe the potential positive and negative (e.g., injury) effects of regular participation in moderate to vigorous physical activities
- participate in daily physical activity during and after school
- relate the concept of practice to the importance of learning new skills; explain why repeated appropriate practice contributes to increased skill development
- when participating in a variety of physical activities and games:
  - explain basic rules needed to make games fair
  - identify the need for rules in social settings and choose appropriate behaviors
  - demonstrate cooperation with partners and small groups
- demonstrate and apply the concept of sportsmanship (e.g., complying with rules, responding appropriately) in games, sports and physical activities
- explain how rules of play and sportsmanship for spectators and participants during games or activities can make them safe and enjoyable
- identify and participate in activities to enhance the health related fitness components (e.g., aerobic capacity/cardio-respiratory endurance, muscular endurance, muscular strength and flexibility)
- identify the components of fitness (muscular strength, muscular endurance, flexibility, body composition, cardio-respiratory endurance); describe the meaning of F.I.T.T. Principle (Frequency, Intensity, Type, Time)

# **Barren County Schools**

## **Vocational Studies**

## **Big Idea: Consumer Decisions**

Individual and families need to make consumer decisions due to the numerous products/services on the market, multiple advertising techniques, and the need to make responsible financial management decisions. Accessing and assessing consumer information, comparing and evaluating products and services, provides basis for making effective consumer decisions. Consumer decisions influence the use of resources and the impact they have on the community and environment.

### **Academic Expectations**

- 2.30** Students evaluate consumer products and services and make effective consumer decisions.  
Students demonstrate the skills to evaluate and use services and resources available in their community.
- 4.4** Students demonstrate the ability to accept the rights and responsibilities for self and others.
- 5.4** Students use a decision-making process to make informed decisions among options.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- fundamental economic concepts are important for consumer decision-making.
- consumer decisions are influenced by economic and social factors.
- values have a role in making consumer decisions.
- consumer actions (e.g., reusing, reducing, recycling) influence the use of resources and impact the environment.
- an individual has multiple life roles that impact responsibility to be a valuable family and community member.

### **Grade 4 Skills and Concepts**

*Students will*

- investigate economic concepts and why they are important for consumer decisions by:
  - examining how individuals and families make choices to satisfy needs and wants as they relate to consumer decisions
  - explain bartering, and how money makes it easier for people to get things they want
  - determining ways in which goods and services used by families impact the environment
- describe how culture, media and technology can influence consumer decisions by:
  - comparing and evaluating products and services based on major factors (e.g., price, quality, features) when making consumer decisions
  - describing how different types of media, technology and advertising impact the family and consumer decision-making
  - identify ways in which consumer decisions (e.g., buying and selling) affect families and friends
- identify ways that individuals have rights and responsibilities as a consumer
- evaluate consumer actions (e.g., reusing, reducing, recycling) and how they influence the use of resources and impact the environment by:
  - describing how consumption, conservation, and waste management practices are related
  - identifying ways the physical environment is related to individual and community health
- examine individual, family, and community roles and responsibilities by:
  - investigating a variety of resources (e.g., current events, surveys, children's magazines) and explain ways in which consumers are addressing the effects of renewable resources on the environment
  - describing jobs carried out by people at school and in the community that support success in school

## **Big Idea: Financial Literacy**

Financial literacy provides knowledge so that students are responsible for their personal economic wellbeing. As consumers, individuals need economic knowledge as a base for making financial decisions impacting short and long term goals throughout one's lifetime. Financial literacy will empower students by providing them with the skills and awareness needed to establish a foundation for a future of financial responsibility and economic independence.

### **Academic Expectations**

- 2.30 Students evaluate consumer products and services and make effective consumer decisions.
- 2.33 Students demonstrate the skills to evaluate and use services and resources available in their community.
- 5.4 Students use a decision-making process to make informed decisions among options.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- management of financial resources is needed to meet goals of individuals and families.
- budgets are a basic component in making financial decisions.
- various services are provided by financial institutions (e.g., banks, credit unions).

### **Grade 4 Skills and Concepts**

*Students will*

- explain how financial management is needed to meet goals of individuals and families by:
  - identifying goals pertaining to money that might affect individuals and families
  - describing different ways to save and invest money (e.g., piggy bank, local bank, savings bonds)
- define credit and how it can be used to make purchases
- explain the purpose of a budget and define the basic components (income, expenses, savings)
- investigate basic services (e.g., deposits, check cashing) provided by financial institutions (e.g., banks, credit unions)

## **Big Idea: Career Awareness, Exploration, Planning**

Career awareness, exploration and planning gives students the opportunity to discover the various career areas that exist and introduce them to the realities involved with the workplace. Many factors need to be considered when selecting a career path and preparing for employment. Career awareness, exploration and planning will enable students to recognize the value of education and learn how to plan for careers.

The relationship between academics and jobs/careers will enable students to make vital connections that will give meaning to their learning.

### **Academic Expectations**

- 2.36** Students use strategies for choosing and preparing for a career.
- 2.37** Students demonstrate skills and work habits that lead to success in future schooling and work.
- 5.4** Students use a decision-making process to make informed decision among options.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- people need to work to meet basic needs.
- a variety of career choices are available in planning for job/careers.
- the connection between work and academics can influence one's future job/career.
- individual and societal needs can impact future jobs/careers.
- self-knowledge is an important part of the career planning process.

### **Grade 4 Skills and Concepts**

*Students will*

- explain why people need to work (e.g., chores, jobs, employment) to meet basic needs (e.g., food, clothing, shelter)
- recognize that the roles of individuals at home, in the workplace, and in the community are constantly changing
- investigate the connection between work and learning and how it can influence one's future job/career by:
  - explaining different jobs/careers that use what they learn in school (mathematics, reading/writing, science, social studies) impacts future jobs/careers
  - describing work done by school personnel and other individuals in the community
- evaluate how individual and societal needs can impact future jobs/careers by:
  - recognizing how career choices may change as a person matures
  - examining and grouping careers in clusters
- recognize self-knowledge (e.g., interests, abilities) is helpful when selecting and preparing for a career path and that unique interests may lead to career choices

## **Big Idea: Employability Skills**

Employability skills will focus on student's competencies with their work habits and academic/technical skills that will impact an individual's success in school and workplace. School-to-work transition skills will help students develop interpersonal skills and positive work habits.

### **Academic Expectations**

- 2.36** Students use strategies for choosing and preparing for a career.  
Students demonstrate skills and work habits that lead to success in future schooling and work.
- 3.7** Students demonstrate the ability to make decisions based on ethical values.
- 4.1** Students effectively use interpersonal skills.
- 4.2** Students use productive team membership skills.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- interpersonal skills are needed to be a responsible friend, family and team member.
- attitudes and work habits contribute to success at home, school and work.
- academics contribute to obtaining and succeeding in employment.

### **Grade 4 Skills and Concepts**

*Students will*

- explain how interpersonal skills are needed to be a responsible friend, family and team member by:
  - identifying ways to cooperate at both home and school
  - learning the importance of developing good team skills (e.g., cooperation, communication) and explain how these skills are used to complete tasks
  - demonstrating how to work cooperatively by contributing ideas, suggestions and efforts
- describe how attitudes and work habits contribute to success at home, school and work by:
  - describing study skills needed in school
  - developing personal responsibilities for their own learning and behaviors
  - explaining how effective communication skills (e.g., reading, writing, speaking, and listening) impacts work-related situations and give examples for success at home, school and work
  - learning how to follow routines (e.g., rules, schedules, directions) with minimal supervision
  - identifying consequences for actions when disobeying rules and routines
  - identifying the importance of developing good work habits
- examine potential job/careers in the community
- identify how employability skills prepare them for obtaining and maintaining employment
- identify ways academics can impact success in employment

## **Big Idea: Communication/Technology**

Special communication and technology skills are needed for success in schooling and in the workplace. Students will be able to express information and ideas using a variety of technologies in various ways.

### **Academic Expectations**

- 1.16** Students use computers and other kinds of technology to collect, organize, and communicate information and ideas.
- 2.37** Students demonstrate skills and work habits that lead to success in future schooling and work.

### **Grade 4 Enduring Knowledge – Understandings**

*Students will understand that*

- technology skills can enhance learning and impact productivity at home, school and the workplace.
- communication skills is essential for jobs/careers.

### **Grade 4 Skills and Concepts**

*Students will*

- explore how technology is used in different jobs/careers
- investigate how technology in school and at work enhances learning and provide access to information and resources by:
  - explain how technology tools (e.g., computer programs, Internet, email, cell phones) are used in homes, schools and jobs
- identify ways written communication skills are used at school and in the workplace

# **Barren County Schools**

## **Arts and Humanities**

New standards for Dance, Theater, Media Arts, Music and Visual Arts can be downloaded here:

<http://education.ky.gov/curriculum/standards/kyacadstand/Pages/conten tareasstandards.aspx>