Grade 4 List of TEKS by Grade Level

STATE FAIR OF TEXAS

TEKS	Description	...is found in these lessons
Art Visual		
4.1(A)	Communicate ideas about self, family, school, and community, using sensory knowledge and life experiences	An Amazing Race! (Livestock) Energetic Tex (Big Tex)
4.1(B)	Choose appropriate vocabulary to discuss the use of art elements such as color, texture, form, line, space, and value and art principles such as emphasis, pattern, rhythm, balance, proportion, and unity.	Deep in the Heart of Texas (Midway)
4.2(B)	Design original artworks	An Amazing Race! (Livestock) Go With the Flow (Livestock) ICONsider Big Tex a Big Deal (Big Tex) Energetic Tex (Big Tex) Deep in the Heart of Texas (Midway) Forcing a Win (Midway) Sweet Treats Galore! (Fair Food) Fried Stuff (Fair Food)
4.3(A)	Identify simple main ideas expressed in art	An Amazing Race! (Livestock) Fried Stuff (Fair Food)
4.3(C)	Identify the roles of art in American society	ICONsider Big Tex a Big Deal (Big Tex)
4.4(A)	Describe intent and form conclusions about personal artworks	Go With the Flow (Livestock) Deep in the Heart of Texas (Midway) Forcing a Win (Midway)
4.4(B)	Interpret ideas and moods in original artworks, portfolios, and exhibitions by peers and others	Sweet Treats Galore! (Fair Food) Fried Stuff (Fair Food)
English Language Arts and Reading (ELAR)		
4.6(G)	Evaluate details read to determine key ideas.	An Amazing Race! (Livestock)
4.7(B)	Write responses that demonstrate understanding of texts, including comparing and contrasting ideas across a variety of sources.	Icon-sider Big Tex A Big Deal (Big Tex)
4.7(C)	Use text evidence to support an appropriate response.	Icon-sider Big Tex A Big Deal (Big Tex)
4.12(D)	Compose correspondence that requests information.	Deep in the Heart of Texas (Midway) Sweet Treats Galore! (Fair Food)

Mathematics

4.1(A)	Apply mathematics to problems arising in everyday life, society, and the workplace	I Am Your Fodder! (Livestock) Forcing a Win (Midway) Fried Stuff (Fair Food)
4.1(B)	Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	I Am Your Fodder! (Livestock) Forcing a Win (Midway) Fried Stuff (Fair Food)
4.1(C)	Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	Forcing a Win (Midway) Fried Stuff (Fair Food)
4.1(D)	Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	Forcing a Win (Midway)
4.1(E)	Create and use representations to organize, record, and communicate mathematical ideas	ICONsider Big Tex a Big Deal (Big Tex)
4.2(A)	Interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left	Forcing a Win (Midway)
4.2(B)	Represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals	Forcing a Win (Midway)
4.2(C)	Compare and order whole numbers to 1,000,000,000 and represent comparisons using the symbols >, <, or =	Energetic Tex (Big Tex)
4.4(A)	Add and subtract whole numbers and decimals to the hundredths place using the standard algorithm	I Am Your Fodder! (Livestock) Forcing a Win (Midway)
4.4(D)	Use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a one-digit number and to multiply a two-digit number by a two-digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties	Fried Stuff (Fair Food)
4.4(G)	Use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a one-digit number and to multiply a two-digit number by a two-digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties	Fried Stuff (Fair Food)
4.4(H)	Solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders	Fried Stuff (Fair Food)

Music

4.5(A)	Identify aurally presented excerpts of music representing diverse genres, styles, periods, and cultures.	Deep in the Heart of Texas (Midway)

Science

4.1(A)	Demonstrate safe practices and the use of safety equipment as described in the Texas Education Agency–approved safety standards during classroom and outdoor investigations using safety equipment, including safety goggles or chemical splash goggles, as appropriate, and gloves, as appropriate.	Fried Stuff (Fair Food)
4.2(B)	Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps.	Forcing a Win (Midway)
4.2(E)	Perform repeated investigations to increase the reliability of results.	Forcing a Win (Midway)
4.4 (A)	Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices, and materials to support observation of habitats of organisms such as terrariums and aquariums.	Fried Stuff (Fair Food)
4.6(A)	Differentiate among forms of energy, including mechanical, sound, electrical, light, and thermal.	Energetic Tex (Big Tex)
4.6(C)	Demonstrate that electricity travels in a closed path, creating an electrical circuit.	Energetic Tex (Big Tex)
4.6(D)	Design a descriptive investigation to explore the effect of force on an object such as a push or a pull, gravity, friction, or magnetism.	Forcing a Win (Midway)
4.9(A)	Investigate that most producers need sunlight, water, and carbon dioxide to make their own food, while consumers are dependent on other organisms for food.	Go With the Flow (Livestock)
4.9(B)	Describe the flow of energy through food webs, beginning with the Sun, and predict how changes in the ecosystem affect the food web.	Go With the Flow (Livestock)

Social Studies

4.7(A)	Describe a variety of regions in Texas and the United States such as political, population, and economic regions that result from patterns of human activity	An Amazing Race! (Livestock)
4.11(B)	Describe how the free enterprise system works, including supply and demand	Sweet Treats Galore! (Fair Food)
4.11(C)	Give examples of the benefits of the free enterprise system such as choice and opportunity	Sweet Treats Galore! (Fair Food)
4.12(A)	Explain how people in different regions of Texas earn their living, past and present, through a subsistence economy and providing goods and services	An Amazing Race! (Livestock)
4.16(A)	Explain the meaning of various patriotic symbols and landmarks of Texas	ICONsider Big Tex a Big Deal (Big Tex) Deep in the Heart of Texas (Midway)
4.17(B)	Explain how individuals can participate voluntarily in civic affairs at state and local levels through activities such as participating in service projects	ICONsider Big Tex a Big Deal (Big Tex)
4.20(B)	Describe how scientific discoveries and innovations such as in aerospace, agriculture, energy, and technology have benefited individuals, businesses, and society in Texas	An Amazing Race! (Livestock)
4.21(A)	Differentiate between, locate, and use valid primary and secondary sources such as computer software;; interviews;; biographies;; oral, print, and visual material;; documents; and artifacts to acquire information about the United States and Texas	Deep in the Heart of Texas (Midway)
4.22(C)	Express ideas orally based on research and experiences	Sweet Treats Galore! (Fair Food)

STATE FAIR OF TEXAS

TEKS	Description	...is found in these lessons
Art Visual		
5.1(A)	Communicate ideas about feelings, self, family, school, and community, using sensory knowledge and life experiences	Farmville (Livestock) Celebrating Symbols (Big Tex) Speeding Around (Midway) Fried Food Frenzy (Fair Food)
5.1(B)	Identify in artworks that color, texture, form, line, space, and value are basic art elements and that the principles such as emphasis, pattern, rhythm, balance, proportion, and unity serve as organizers	Grass Fed! Grain Fed! (Livestock) How It's Made (Big Tex) Reduce, Reuse, Recycle (Fair Food)
5.2(A)	Combine information from direct observation, experience, and imagination to express ideas about self, family, and community	Carnival Challenge! (Midway) Speeding Around (Midway) Fried Food Frenzy (Fair Food)
5.2(B)	Compare relationships between design and everyday life	Grass Fed! Grain Fed! (Livestock) Farmville (Livestock) Celebrating Symbols (Big Tex) Carnival Challenge! (Midway)
5.2(C)	Create original artworks and explore photographic imagery, using a variety of art materials and media appropriately	How It's Made (Big Tex) Reduce, Reuse, Recycle (Fair Food)
5.3(A)	compare artworks from several national periods, identifying similarities and differences	Celebrating Symbols (Big Tex)
5.4(A)	Analyze personal artworks to interpret meaning	Grass Fed! Grain Fed! (Livestock) Farmville (Livestock) How It's Made (Big Tex) Speeding Around (Midway)
5.4(B)	Analyze original artworks, portfolios, and exhibitions by peers and others to form conclusions about properties	Fried Food Frenzy (Fair Food) Reduce, Reuse, Recycle (Fair Food)

State Fair of Texas

English Language Arts and Reading (ELAR)

5.12(A)	Compose literary texts such as personal narratives, fiction, and poetry using genre characteristics and craft.	Grass Fed! Grain Fed! (Livestock)
5.12(C)	Compose argumentative texts, including opinion essays, using genre characteristics and craft.	Carnival Challenge! (Midway) Fried Food Frenzy (Fair Food)
5.6(E)	Make connections to personal experiences, ideas in other texts, and society.	Celebrating Symbols (Big Tex)
5.7(A)	Describe personal connections to a variety of sources, including self-selected texts.	Celebrating Symbols (Big Tex)

Mathematics

5.1(A)	Apply mathematics to problems arising in everyday life, society, and the workplace	Farmville (Livestock) How It's Made (Big Tex) Speeding Around (Midway) Reduce, Reuse, Recycle (Fair Food)
5.1(B)	Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	Farmville (Livestock) How It's Made (Big Tex) Speeding Around (Midway) Reduce, Reuse, Recycle (Fair Food)
5.1(C)	Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	How It's Made (Big Tex) Speeding Around (Midway)
5.1(D)	Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	Farmville (Livestock)
5.1(F)	Analyze mathematical relationships to connect and communicate mathematical ideas	Speeding Around (Midway)
5.1(G)	Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication	Reduce, Reuse, Recycle (Fair Food)
5.2(C)	Round decimals to tenths or hundredths	Speeding Around (Midway)
5.3(A)	Round decimals to tenths or hundredths	Farmville (Livestock) How It's Made (Big Tex) Speeding Around (Midway)

STATE FAIR OF TEXAS

Mathematics

5.3(E)	Solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers	Speeding Around (Midway)
5.3(K)	Add and subtract positive rational numbers fluently	Reduce, Reuse, Recycle (Fair Food)
5.3(I)	Represent and solve multiplication of a whole number and a fraction that refers to the same whole using objects and pictorial models, including area models	Speeding Around (Midway)
5.4(H)	Represent and solve problems related to perimeter and/or area and related to volume	Farmville (Livestock)
5.10(E)	Describe actions that might be taken to balance a budget when expenses exceed income	Reduce, Reuse, Recycle (Fair Food)
5.10(F)	Balance a simple budget	Reduce, Reuse, Recycle (Fair Food)

Science

5.1(B)	Make informed choices in the conservation, disposal, and recycling of materials.	Reduce, Reuse, Recycle (Fair Food)
5.2(D)	Analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence.	Reduce, Reuse, Recycle (Fair Food)
5.2(F)	Communicate valid conclusions in both written and verbal forms.	Reduce, Reuse, Recycle (Fair Food)
5.3(B)	Draw or develop a model that represents how something that cannot be seen such as the Sun, Earth, and Moon system and formation of sedimentary rock works or looks.	How It's Made (Big Tex)
5.3(C)	Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.	How It's Made (Big Tex)
5.4(A)	Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, prisms, mirrors, balances, spring scales, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support observations of habitats or organisms such as terrariums and aquariums.	Farmville (Livestock)

STATE FAIR OF TEXAS

Science

5.6(A)	Explore the uses of energy, including mechanical, light, thermal, electrical, and sound energy.	Speeding Around (Midway)
5.6(C)	Demonstrate that light travels in a straight line until it strikes an object and is reflected or travels through one medium to another and is refracted.	Speeding Around (Midway)
5.9(A)	Observe the way organisms live and survive in their ecosystem by interacting with the living and nonliving components.	Farmville (Livestock)
5.9(C)	Predict the effects of changes in ecosystems caused by living organisms, including humans, such as the overpopulation of grazers or the building of highways.	Farmville (Livestock)

Social Studies

5.12(B)	Evaluate the effects of supply and demand on business, industry, and agriculture in the United States	Grass Fed! Grain Fed! (Livestock)
5.17(E)	Explain the significance of important landmarks	Celebrating Symbols (Big Tex)
5.24(A)	Differentiate between, locate, and use valid primary and secondary sources such as computer software;; interviews;; biographies;; oral, print, and visual material; documents;; and artifacts to acquire information about the United States	Grass Fed! Grain Fed! (Livestock)
5.24(B)	Analyze information by sequencing, categorizing, identifying cause-and-effect relationships, comparing, contrasting, finding the main idea, summarizing, making generalizations and predictions, and drawing inferences and conclusions	Grass Fed! Grain Fed! (Livestock) Celebrating Symbols (Big Tex)
5.24(D)	Identify different points of view about an issue, topic, or current event	Grass Fed! Grain Fed! (Livestock) Fried Food Frenzy (Fair Food)
5.25(B)	Incorporate main and supporting ideas in verbal and written communication	Fried Food Frenzy (Fair Food)
5.25(C)	Express ideas orally based on research and experiences;	Fried Food Frenzy (Fair Food)
5.26(A)	Use a problem-solving process to identify a problem, gather information, list and consider options, consider advantages and disadvantages, choose and implement a solution, and evaluate the effectiveness of the solution	Carnival Challenge! (Midway)
5.26(B)	Use a decision-making process to identify a situation that requires a decision, gather information, identify options, predict consequences, and take action to implement a decision	Carnival Challenge! (Midway)

STATE FAIR OF TEXAS

TEKS	Description	...is found in these lessons
Art Visual		
6.1(A)	Illustrate themes from direct observation, personal experience, and traditional events	Holy Cows! (Livestock) Classify This! (Livestock) GPS: The Modern Latitude & Longitude (Big Tex) earth – art = eh (Big Tex **Fully Integrated**) Saving Ferris (Midway) Step by Step (Midway) Mind Your Manners (Fair Food)
6.1(B)	Analyze and form generalizations about the interdependence of the art elements such as color, texture, form, line, space, and value and principles such as emphasis, pattern, rhythm, balance, proportion, and unity, using art vocabulary appropriately	earth – art = eh (Big Tex **Fully Integrated**) Saving Ferris (Midway) Delicious : Nutritious (Fair Foods)
6.2(A)	Express a variety of ideas based on personal experience and direct observations	Holy Cows! (Livestock) Classify This! (Livestock) GPS: The Modern Latitude & Longitude (Big Tex) Saving Ferris (Midway)
6.2(B)	Describe in detail a variety of practical applications for design ideas	earth – art = eh (Big Tex **Fully Integrated**) Step by Step (Midway) Mind Your Manners (Fair Food)
6.2(C)	Demonstrate technical skills effectively, using a variety of art media and materials to produce designs, drawings, paintings, prints, sculptures, ceramics, fiberart, photographic imagery, and electronic media-generated art	Classify This! (Livestock) Saving Ferris (Midway)
6.3(B)	Compare specific artworks from a variety of cultures	Holy Cows! (Livestock)
6.3(C)	Compare career and avocational opportunities in art	earth – art = eh (Big Tex **Fully Integrated**)
6.4(A)	Conduct in-progress analyses and critiques of personal artworks	Step by Step (Midway) Delicious : Nutritious (Fair Foods)
6.4(B)	Analyze original artworks, portfolios, and exhibitions of peers to form conclusions about formal properties and historical and cultural contexts	GPS: The Modern Latitude & Longitude (Big Tex)

English Language Arts and Reading (ELAR)

6.1(C)	Give an organized presentation with a specific stance and position, employing eye natural gestures, and conventions of language to communicate ideas effectively. contact, speaking rate, volume, enunciation, natural gestures, and conventions of language to communicate ideas effectively.	GPS: The Modern Latitude & Longitude (Big Tex)
6.2(B)	Use context such as definition, analogy, and examples to clarify the meaning of words.	Earth – Art = Eh (Big Tex)
6.3(C)	Determine the meaning and usage of grade-level academic English words derived from Greek and Latin roots such as mis/mit, bene, man, vac, scrib/script, and jur/jus.	Holy Cows! (Livestock)
6.6(H)	Respond orally or in writing with appropriate register, vocabulary, tone, and voice.	GPS: The Modern Latitude & Longitude (Big Tex)
6.9(A)	Explain the author's purpose and message within a text.	Holy Cows! (Livestock) Mind Your Manners (Fair Food)
6.11(B)	Compose informational texts, including multi-paragraph essays that convey information about a topic, using a clear controlling idea or thesis statement and genre characteristics and craft.	Saving Ferris (Midway) Mind Your Manners (Fair Food)

Mathematics

6.1(B)	Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	Step by Step (Midway)
6.1(D)	Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	Classify This! (Livestock) earth – art = eh (Big Tex **Fully Integrated**)
6.1(E)	Create and use representations to organize, record, and communicate mathematical ideas	Classify This! (Livestock) earth – art = eh (Big Tex **Fully Integrated**)
6.1(G)	Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication	Classify This! (Livestock)
6.2(A)	Classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers	Classify This! (Livestock)

Mathematics

6.2(E)	Extend representations for division to include fraction notation such as a/b represents the same number as a ÷ b where b ≠ 0	Step by Step (Midway)
6.3(E)	Multiply and divide positive rational numbers fluently	earth – art = eh (Big Tex Fully Integrated) Step by Step (Midway)
6.4(B)	Apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates	Step by Step (Midway)
6.4(C)	Give examples of ratios as multiplicative comparisons of two quantities describing the same attribute	Delicious : Nutritious (Fair Foods)
6.4(D)	Give examples of rates as the comparison by division of two quantities having different attributes, including rates as quotients	Step by Step (Midway)
6.5(A)	Represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions	Step by Step (Midway)

Science

6.2(A)	Plan and implement comparative and descriptive investigations by making observations, asking well defined questions, and using appropriate equipment and technology.	Delicious: Nutritious (Fair Food)
6.2(C)	Collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers.	Delicious: Nutritious (Fair Food)
6.4(A)	Use appropriate tools, including journals/notebooks, beakers, petri dishes, meter sticks, graduated cylinders, hot plates, test tubes, balances, microscopes, thermometers, calculators, computers, timing devices, and other necessary equipment to collect, record and analyze information.	Classify This! (Livestock) Earth – Art = Eh (Big Tex)
6.8(A)	Compare and contrast potential and kinetic energy.	Step by Step (Midway)
6.8(B)	Identify and describe the changes in position, direction, and speed of an object when acted upon by unbalanced forces.	Step by Step (Midway)
6.12(C)	Recognize that the broadest taxonomic classification of living organisms is divided into currently recognized domains.	Classify This! (Livestock)
6.12(D)	Identify the basic characteristics of organisms, including prokaryotic or eukaryotic, unicellular or multicellular, autotrophic or heterotrophic, and mode of reproduction, that further classify them in the currently recognized kingdoms.	Classify This! (Livestock)
6.12(F)	Diagram the levels of organization within an ecosystem, including organism, population, community, and ecosystem.	Classify This! (Livestock)

Social Studies

6.3(C)	Identify and locate major physical and human geographic features such as landforms, water bodies, and urban centers of various places and regions.	GPS: The Modern Latitude & Longitude (Big Tex)
6.8(A)	Define and give examples of agricultural, retail, manufacturing (goods), and service industries.	Earth – Art = Eh (Big Tex)
6.13(A)	Identify and describe common traits that define cultures and culture regions.	Holy Cows! (Livestock) Mind Your Manners (State Fair Food)
6.14(C)	Analyze the efforts and activities institutions use to sustain themselves over time.	Saving Ferris (Midway)
6.17(A)	Explain the relationship among religious ideas, philosophical ideas, and cultures.	Holy Cows! (Livestock)
6.19(A)	Differentiate between, locate, and use valid primary and secondary sources such as oral, print, and visual material and artifacts to acquire information about various world cultures.	Mind Your Manners (Fair Food)
6.19(B)	Analyze information by sequencing, categorizing, identifying cause-and-effect relationships, comparing, contrasting, finding the main idea, summarizing, making generalizations and predictions, and drawing inferences and conclusions.	Holy Cows! (Livestock)
6.19(C)	Organize and interpret information from outlines, reports, databases, and visuals, including graphs, charts, timelines, and maps.	Earth – Art = Eh (Big Tex)

STATE FAIR OF TEXAS

TEKS	Description	...is found in these lessons
Art Visual		
7.1(A)	Illustrate ideas from direct observation, imagination, personal experience, and school and community events	Shipwrecked! (Livestock) Spending Their Inheritance (Livestock) Big Tex 2.0 (Big Tex) The Big Tex Workout (Big Tex) Divide & Conquer! (Midway) Riding Out the Storms (Midway) Fair Fare (Fair Food) Sugar Rush! (Fair Food)
7.1(B)	Compare and contrast the use of art elements and principles, using vocabulary accurately	Shipwrecked! (Livestock)
7.2(A)	Create artworks based on direct observations, personal experience, and imagination	Shipwrecked! (Livestock) Spending Their Inheritance (Livestock) Big Tex 2.0 (Big Tex) The Big Tex Workout (Big Tex) Divide & Conquer! (Midway) Fair Fare (Fair Food) Sugar Rush! (Fair Food)
7.2(B)	Incorporate design into artworks for use in everyday life	Shipwrecked! (Livestock) Riding Out the Storms (Midway) Fair Fare (Fair Food)
7.3(A)	Analyze ways that international, historical, and political issues influence artworks	Shipwrecked! (Livestock) Spending Their Inheritance (Livestock) Big Tex 2.0 (Big Tex)
7.3(B)	Analyze selected artworks to determine cultural contexts	Shipwrecked! (Livestock) Big Tex 2.0 (Big Tex) Divide & Conquer! (Midway)
7.4(A)	Analyze and compare relationships, such as function and meaning, in personal artworks	Big Tex 2.0 (Big Tex) The Big Tex Workout (Big Tex) Divide & Conquer! (Midway) Riding Out the Storms (Midway) Sugar Rush! (Fair Food)

English Language Arts and Reading (ELAR)

7.5(G)	Evaluate details read to determine key ideas.	Big Tex 2.0 (Big Tex)
7.9(C)	Analyze the author's use of print and graphic features to achieve specific purposes.	Big Tex 2.0 (Big Tex)
7.11(A)	Compose literary texts such as personal narratives, fiction, and poetry using genre characteristics and craft	Shipwrecked! (Livestock) Fair Fare (Fair Food)
7.12(D)	Identify and gather relevant information from a variety of sources.	Fair Fare (Fair Food)
7.12 (F)	Synthesize information from a variety of sources.	Fair Fare (Fair Food)

Mathematics

7.1(A)	Apply mathematics to problems arising in everyday life, society, and the workplace	Spending Their Inheritance (Livestock) The Big Tex Workout (Big Tex) Riding Out the Storms (Midway) Sugar Rush! (Fair Food)
7.1(B)	Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	Spending Their Inheritance (Livestock) The Big Tex Workout (Big Tex)
7.1(C)	Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	Spending Their Inheritance (Livestock) The Big Tex Workout (Big Tex) Riding Out the Storms (Midway)
7.1(D)	Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	The Big Tex Workout (Big Tex) Riding Out the Storms (Midway)
7.1(E)	Create and use representations to organize, record, and communicate mathematical ideas	The Big Tex Workout (Big Tex)
7.1(G)	Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication	The Big Tex Workout (Big Tex) Sugar Rush! (Fair Food)
7.3(A)	Add, subtract, multiply, and divide rational numbers fluently	The Big Tex Workout (Big Tex) Sugar Rush! (Fair Food)
7.3(B)	Apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers	Spending Their Inheritance (Livestock) Riding Out the Storms (Midway)

STATE FAIR
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Mathematics

7.4(A)	Represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	The Big Tex Workout (Big Tex)
7.4(B)	Calculate unit rates from rates in mathematical and real-world problems	Riding Out the Storms (Midway)
7.4(D)	Solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems	Riding Out the Storms (Midway)
7.4(E)	Convert between measurement systems, including the use of proportions and the use of unit rates	The Big Tex Workout (Big Tex)
7.13(C)	Create and organize a financial assets and liabilities record and construct a net worth statement	Spending Their Inheritance (Livestock)

Science

7.2(A)	Plan and implement comparative and descriptive investigations by making observations, asking well defined questions, and using appropriate equipment and technology.	Riding out the Storms (Midway)
7.2(C)	Collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers.	Riding out the Storms (Midway)
7.2(E)	Analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends.	Riding out the Storms (Midway)
7.6(A)	Distinguish between physical and chemical changes in matter.	Sugar Rush! (Fair Food)
7.7(A)	Illustrate the transformation of energy within an organism such as the transfer from chemical energy to thermal energy.	The Big Tex Workout (Big Tex)
7.8(A)	Predict and describe how catastrophic events such as floods, hurricanes, or tornadoes impact ecosystems.	Riding out the Storms (Midway)
7.14(A)	Define heredity as the passage of genetic instructions from one generation to the next generation.	Spending Their Inheritance (Livestock)
7.14(B)	Compare the results of uniform or diverse offspring from asexual or sexual reproduction.	Spending Their Inheritance (Livestock)
7.14(C)	Recognize that inherited traits of individuals are governed in the genetic material found in the genes within chromosomes in the nucleus.	Spending Their Inheritance (Livestock)

STATE FAIR OF TEXAS

Social Studies

7.2(A)	Compare the cultures of American Indians in Texas prior to European colonization such as Gulf, Plains, Puebloan, and Southeastern.	Big Tex 2.0 (Big Tex)
7.2(B)	Identify important individuals, events, and issues related to European exploration of Texas such as Alonso Álvarez de Pineda, Álvar Núñez Cabeza de Vaca, the search for gold, and the conflicting territorial claims between France and Spain.	Divide & Conquer! (Midway)
7.4(A)	Identify individuals, events, and issues during the administrations of Republic of Texas Presidents Houston, Lamar, and Jones such as the Texas Navy, the Texas Rangers, Jack Coffee Hays, Chief Bowles, William Goyens, Mary Maverick, José Antonio Navarro, the Córdova Rebellion, the Council House Fight, the Santa Fe Expedition, slavery, and the roles of racial and ethnic groups.	Big Tex 2.0 (Big Tex)
7.8(B)	Locate and compare places of importance in Texas in terms of physical and human characteristics such as major cities, waterways, natural and historic landmarks, political and cultural regions, and local points of interest.	Shipwrecked! (Livestock) Big Tex 2.0 (Big Tex)
7.18(C)	Identify examples of Spanish influence and the influence of other cultures on Texas such as place names, vocabulary, religion, architecture, food, and the arts.	Fair Fare (Fair Food)
7.18(D)	Identify contributions to the arts by Texans such as Roy Bedichek, Diane Gonzales Bertrand, J. Frank Dobie, Scott Joplin, Elisabet Ney, Amado Peña Jr., Walter Prescott Webb, and Horton Foote.	Fair Fare (Fair Food)
7.20(B)	Analyze information by applying absolute and relative chronology through sequencing, categorizing, identifying cause-and-effect relationships, comparing, contrasting, finding the main idea, summarizing, making generalizations and predictions, and drawing inferences and conclusions.	Divide & Conquer! (Midway)
7.20(C)	Organize and interpret information from outlines, reports, databases, and visuals, including graphs, charts, timelines, and maps.	Fair Fare (Fair Food)
7.20(D)	Identify bias and points of view from the historical context surrounding an event that influenced the participants.	Divide & Conquer! (Midway)

STATE FAIR OF TEXAS

TEKS	Description	...is found in these lessons
Art Visual		
8.1(A)	Illustrate ideas from direct observation, imagination, and personal experience and from experiences at school and community events	What's It Gonna Cost Me... (Livestock) Art Saves Lives (Livestock) Friends of Big Tex (Big Tex) Games, Rides, and Fun! (Midway) A Ride Through Newton's Laws (Midway) Iconic Edibles (Fair Food) Yummy. Period. (Fair Food)
8.1(B)	Define a variety of concepts directly related to the art elements and principles, using vocabulary accurately	Friends of Big Tex (Big Tex)
8.2(A)	Create artworks integrating themes found through direct observation, personal experiences, and imagination	What's It Gonna Cost Me... (Livestock) Art Saves Lives (Livestock) Friends of Big Tex (Big Tex) Survey Says... (Big Tex) Games, Rides, and Fun! (Midway) Yummy. Period. (Fair Food)
8.2(B)	Apply design skills to communicate effectively ideas and thoughts in everyday life	Art Saves Lives (Livestock) Friends of Big Tex (Big Tex) A Ride Through Newton's Laws (Midway) Iconic Edibles (Fair Food) Yummy. Period. (Fair Food)
8.2(C)	Select appropriate art materials and tools to interpret subjects or themes when producing drawings, paintings, prints, sculptures, ceramics, fiberart, photography/film making, and electronic media-generated art, traditionally and experimentally	Survey Says... (Big Tex) Games, Rides, and Fun! (Midway) A Ride Through Newton's Laws (Midway) Iconic Edibles (Fair Food)
8.3(B)	Identify cultural ideas expressed in artworks relating to social, political, and environmental themes	What's It Gonna Cost Me... (Livestock) Art Saves Lives (Livestock) Survey Says... (Big Tex)
8.4(A)	Analyze with the teacher or peers personal artworks in progress, using critical attributes, and participate in individual and group critiques	Games, Rides, and Fun! (Midway) Yummy. Period. (Fair Food)
8.4(B)	Analyze original artworks, portfolios, and exhibitions by peers and others to form conclusions about formal properties, historical and cultural contexts, intents, and meanings	A Ride Through Newton's Laws (Midway) Iconic Edibles (Fair Food)

English Language Arts and Reading (ELAR)

8.1(C)	Advocate a position using anecdotes, analogies, and/or illustrations employing eye contact, speaking rate, volume, enunciation, a variety of natural gestures, and conventions of language to communicate ideas effectively.	Survey Says... (Big Tex) Games, Rides, and Fun! (Midway)
8.1(D)	Identify and gather relevant information from a variety of sources.	Friends of Big Tex: Pen Pals
8.6(H)	Respond orally or in writing with appropriate register, vocabulary, tone, and voice.	Survey Says... (Big Tex) Games, Rides, and Fun! (Midway)
8.9(C)	Analyze the author's use of print and graphic features to achieve specific purposes.	What's It Gonna Cost Me... Tomorrow? (Livestock)
8.10(A)	Plan a first draft by selecting a genre appropriate for a particular topic, purpose, and audience using a range of strategies such as discussion, background reading, and personal interests.	Iconic Edibles (Fair Food)
8.10(B)	Develop drafts into a focused, structured, and coherent piece of writing.	Iconic Edibles (Fair Food)
8.10(C)	Revise drafts for clarity, development, organization, style, word choice, and sentence variety.	Iconic Edibles (Fair Food)
8.10(D)	Edit drafts using standard English conventions.	Iconic Edibles (Fair Food)
8.10(E)	Publish written work for appropriate audiences.	Iconic Edibles (Fair Food)
8.11(A)	Compose literary texts such as personal narratives, fiction, and poetry using genre characteristics and craft.	What's It Gonna Cost Me... Tomorrow? (Livestock)
8.11(B)	Compose informational texts, including multi-paragraph essays that convey information about a topic, using a clear controlling idea or thesis statement and genre characteristics and craft.	Games, Rides, and Fun! (Midway)
8.11(D)	Compose correspondence that reflects an opinion, registers a complaint, or requests information in a business or friendly structure.	Friends of Big Tex (Big Tex)
8.12(D)	Identify and gather relevant information from a variety of sources.	Survey Says... (Big Tex) Friends of Big Tex (Big Tex)

STATE FAIR OF TEXAS

Mathematics		
8.1(A)	Apply mathematics to problems arising in everyday life, society, and the workplace	Survey Says... (Big Tex)
8.1(B)	Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	Survey Says... (Big Tex)
8.1(C)	Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	Survey Says... (Big Tex)
8.1(D)	Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	Art Saves Lives (Livestock) Survey Says... (Big Tex)
8.1(E)	Create and use representations to organize, record, and communicate mathematical ideas	Art Saves Lives (Livestock) Yummy. Period. (Fair Food)
8.1(F)	Analyze mathematical relationships to connect and communicate mathematical ideas	Art Saves Lives (Livestock)
8.1(G)	Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication	Survey Says... (Big Tex)
8.2(C)	Convert between standard decimal notation and scientific notation	Yummy. Period. (Fair Food)
8.2(D)	Order a set of real numbers arising from mathematical and real-world contexts	Yummy. Period. (Fair Food)
8.4(C)	Use data from a table or graph to determine the rate of change or slope and y-intercept in mathematical and real-world problems	A Ride Through Newton's Laws (Midway)
8.5(F)	Distinguish between proportional and non-proportional situations using tables, graphs, and equations in the form $y = kx$ or $y = mx + b$, where $b \neq 0$	Survey Says... (Big Tex)
8.5(G)	Identify functions using sets of ordered pairs, tables, mappings, and graphs	A Ride Through Newton's Laws (Midway)

Science

8.2(B)	Design and implement experimental investigations by making observations, asking well defined questions, formulating testable hypotheses, and using appropriate equipment and technology.	Survey Says... (Big Tex)
8.2(D)	Construct tables and graphs, using repeated trials and means, to organize data and identify patterns.	Survey Says... (Big Tex)
8.2(E)	Analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends.	Survey Says... (Big Tex)
8.5(C)	Interpret the arrangement of the Periodic Table, including groups and periods, to explain how properties are used to classify elements.	Yummy. Period. (Fair Food)
8.6(A)	Demonstrate and calculate how unbalanced forces change the speed or direction of an object's motion.	A Ride Through Newton's Laws (Midway)
8.6(B)	Differentiate between speed, velocity, and acceleration.	A Ride Through Newton's Laws (Midway)
8.6(C)	Investigate and describe applications of Newton's three laws of motion such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches.	A Ride Through Newton's Laws (Midway)
8.11(A)	Investigate how organisms and populations in an ecosystem depend on and may compete for biotic factors such as food and abiotic factors such as quantity of light, water, range of temperatures, or soil composition.	Art Saves Lives (Livestock)

Social Studies

8.10(A)	Locate places and regions directly related to major eras and turning points in the United States during the 17th, 18th, and 19th centuries.	Friends of Big Tex (Big Tex)
8.12(C)	Analyze the causes and effects of economic differences among different regions of the United States at selected times.	Games, Rides, and Fun! (Midway)
8.14(B)	Describe the characteristics and the benefits of the U.S. free enterprise system through 1877.	What's it Gonna Cost Me... Tomorrow?! (Livestock)
8.23(D)	Analyze the contributions of people of various racial, ethnic, and religious groups to our national identity.	Iconic Edibles (Fair Food)
8.26(A)	Identify examples of American art, music, and literature that reflect society in different eras such as the Hudson River School artists, the "Battle Hymn of the Republic," and transcendental literature.	Iconic Edibles (Fair Food)

Social Studies

8.26(B)	Analyze the relationship between the arts and continuity and change in the American way of life.	Games, Rides, and Fun! (Midway)
8.28(A)	Compare the effects of scientific discoveries and technological innovations that have influenced daily life in different periods in U.S. history.	Games, Rides, and Fun! (Midway)
8.29(A)	Differentiate between, locate, and use valid primary and secondary sources such as media and news services, biographies, interviews, and artifacts to acquire information about the United States.	What's it Gonna Cost Me... Tomorrow?! (Livestock) Friends of Big Tex (Pen Pals)
8.29(C)	Organize and interpret information from outlines, reports, databases, and visuals, including graphs, charts, timelines, and maps.	What's it Gonna Cost Me... Tomorrow?! (Livestock) Games, Rides, and Fun! (Midway)
8.30(C)	Create written, oral, and visual presentations of social studies information.	Friends of Big Tex (Big Tex) Games, Rides, and Fun! (Midway) Iconic Edibles (Fair Food)