

# Grade 4

## List of TEKS by Grade Level



TEKS	description	...is found in these lessons:
<b>Art (Visual)</b>		
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)
<b>English Language Arts and Reading (ELAR)</b>		
4.11(A)	Summarize the main idea and supporting details in text in ways that maintain meaning	An Amazing Race! (Livestock)
4.14(B)	Explain how various design techniques used in media influence the message	An Amazing Race! (Livestock)
4.18(B)	Write letters whose language is tailored to the audience and purpose	Deep in the Heart of Texas (Midway) Sweet Treats Galore! (Fair Food)
4.18(C)	Write responses to literary or expository texts and provide evidence from the text to demonstrate understanding	ICONsider Big Tex a Big Deal (Big Tex)

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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	Energetic Tex (Big Tex) Forcing a Win (Midway)
4.1(E)	Create and use representations to organize, record, and communicate mathematical ideas	Forcing a Win (Midway)
4.1(G)	Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication	I Am Your Fodder! (Livestock)
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	Fried Stuff (Fair Food)

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	number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties	
4.4(H)	Solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders	Fried Stuff (Fair Food)
<b>Music</b>		
4.5(A)	Identify aurally presented excerpts of music representing diverse genres, styles, periods, and cultures.	Deep in the Heart of Texas (Midway)
<b>Science</b>		
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(B)	use safety equipment as appropriate, including safety goggles and gloves.	Fried Stuff (Fair Food)
4.5(B)	predict the changes caused by heating and cooling such as ice becoming liquid water and condensation forming on the outside of a glass of ice water;	Fried Stuff (Fair Food)
4.6(A)	differentiate among forms of energy, including mechanical, sound, electrical, light, and heat/thermal;	Energetic Tex (Big Tex)
4.6(C)	demonstrate that electricity travels in a closed path, creating an electrical circuit, and explore an electromagnetic field;	Energetic Tex (Big Tex)
4.6(D)	design an experiment to test 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 such as a fire in a forest.	Go With the Flow (Livestock)
<b>Social Studies</b>		
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)

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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)

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TEKS	description	...is found in these lessons:
<b>Art (Visual)</b>		
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)
<b>English Language Arts and Reading (ELAR)</b>		
5.14(A)	Explain how messages conveyed in various forms of media are presented differently	Grass Fed! Grain Fed! (Livestock)

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5.17	Students write about their own experiences. Students are expected to write a personal narrative that conveys thoughts and feelings about an experience	Grass Fed! Grain Fed! (Livestock)
5.19	Students write persuasive texts to influence the attitudes or actions of a specific audience on specific issues	Carnival Challenge! (Midway) Fried Food Frenzy (Fair Food)
5.RC(F)	Make connections (e.g., thematic links, author analysis) between and across multiple texts of various genres and provide textual evidence.	Celebrating Symbols (Big Tex)
<b>Mathematics</b>		
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)

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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(l)	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)
<b>Science</b>		
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(C)	draw or develop a model that represents how something works or looks that cannot be seen such as how a soda dispensing machine works;	How It's Made (Big Tex)
5.3(D)	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, pan balances, triple beam balances, spring scales, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices, including clocks and stopwatches; and materials to support observations of habitats or organisms such as terrariums and aquariums;	Farmville (Livestock)
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 or travels through one medium to another and demonstrate that light can be reflected such as	Speeding Around (Midway)

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	the use of mirrors or other shiny surfaces and refracted such as the appearance of an object when observed through water;	
5.9(A)	observe the way organisms live and survive in their ecosystem by interacting with the living and non-living elements;	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; and	Farmville (Livestock)
<b>Social Studies</b>		
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)



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TEKS	description	...is found in these lessons:
<b>Art (Visual)</b>		
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 <b>Fully Integrated</b> ) 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 <b>Fully Integrated</b> ) 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 <b>Fully Integrated</b> ) 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 <b>Fully Integrated</b> )
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)

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English Language Arts and Reading (ELAR)		
6.2(A)	Determine the meaning of grade-level academic English words derived from Latin, Greek, or other linguistic roots and affixes	Holy Cows! (Livestock)
6.2(B)	Use context (e.g., cause and effect or compare and contrast organizational text structures) to determine or clarify the meaning of unfamiliar or multiple meaning words	earth - art = eh (Big Tex <b>Fully Integrated</b> )
6.9	Students analyze, make inferences and draw conclusions about the author's purpose in cultural, historical, and contemporary contexts and provide evidence from the text to support their understanding	Holy Cows! (Livestock) Mind Your Manners (Fair Food)
6.17	Students write expository and procedural or work-related texts to communicate ideas and information to specific audiences for specific purposes	Saving Ferris (Midway) Mind Your Manners (Fair Food)
6.12(B)	Interpret factual, quantitative, or technical information presented in maps, charts, illustrations, graphs, timelines, tables, and diagrams	earth - art = eh (Big Tex <b>Fully Integrated</b> )
6.23(C)	Record data, utilizing available technology (e.g., word processors) in order to see the relationships between ideas, and convert graphic/visual data (e.g., charts, diagrams, timelines) into written notes	earth - art = eh (Big Tex <b>Fully Integrated</b> )
6.27	Students are expected to give an organized presentation with a specific point of view, employing eye contact, speaking rate, volume, enunciation, natural gestures, and conventions of language to communicate ideas effectively	GPS: The Modern Latitude & Longitude (Big Tex)
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 <b>Fully Integrated</b> )
6.1(E)	Create and use representations to organize, record, and communicate mathematical ideas	Classify This! (Livestock) earth - art = eh (Big Tex <b>Fully Integrated</b> )
6.1(G)	Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication	Classify This! (Livestock)

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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)
6.2(E)	Extend representations for division to include fraction notation such as $a/b$ represents the same number as $a \div b$ where $b \neq 0$	Step by Step (Midway)
6.3(E)	Multiply and divide positive rational numbers fluently	earth - art = eh (Big Tex <b>Fully Integrated</b> ) 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)
<b>Science</b>		
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 Foods)
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 Foods)
6.4(A)	use appropriate tools to collect, record, and analyze information, including journals/notebooks, beakers, Petri dishes, meter sticks, graduated cylinders, hot plates, test tubes, triple beam balances, microscopes, thermometers, calculators, computers, timing devices, and other equipment as needed to teach the curriculum;	Classify This! (Livestock) earth - art = eh (Big Tex <b>Fully Integrated</b> )
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)

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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)
<b>Social Studies</b>		
6.4(A)	Locate various contemporary societies on maps and globes using latitude and longitude to determine absolute location	GPS: The Modern Latitude & Longitude (Big Tex)
6.4(C)	Explain ways in which human migration influences the character of places and regions	GPS: The Modern Latitude & Longitude (Big Tex)
6.10(A)	Define and give examples of agricultural, wholesale, retail, manufacturing (goods), and service industries	earth - art = eh (Big Tex <b>Fully Integrated</b> )
6.15(A)	Define culture and the common traits that unify a culture region	Holy Cows! (Livestock)
6.15(B)	Identify and describe common traits that define cultures	Mind Your Manners (Fair Food)
6.15(E)	Analyze the similarities and differences among various world societies	Holy Cows! (Livestock) Saving Ferris (Midway)
6.16(C)	Analyze the efforts and activities institutions use to sustain themselves over time such as the development of an informed citizenry through education and the use of monumental architecture	Saving Ferris (Midway)
6.19(A)	Explain the relationship among religious ideas, philosophical ideas, and cultures	Holy Cows! (Livestock)
6.21(A)	Differentiate between, locate, and use valid primary and secondary sources such as computer software; interviews; biographies; oral, print, and visual material; and artifacts to acquire information about various world cultures	Mind Your Manners (Fair Food)
6.21(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)
6.21(C)	Organize and interpret information from outlines, reports, databases, and visuals, including graphs, charts, timelines, and maps	earth - art = eh (Big Tex <b>Fully Integrated</b> )

# Grade 7

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TEKS	description	...is found in these lessons:
<b>Art (Visual)</b>		
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)

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<b>English Language Arts and Reading (ELAR)</b>		
7.10(A)	Evaluate a summary of the original text for accuracy of the main ideas, supporting details, and overall meaning;	Big Tex 2.0 (Big Tex)
7.12(A)	Follow multi-dimensional instructions from text to complete a task, solve a problem, or perform procedures	Divide & Conquer! (Midway)
7.12(B)	Explain the function of the graphical components of a text	Divide & Conquer! (Midway)
7.13(A)	Interpret both explicit and implicit messages in various forms of media	Divide & Conquer! (Midway)
7.16	Students write about their own experiences. Students are expected to write a personal narrative that has a clearly defined focus and communicates the importance of or reasons for actions and/or consequences.	Fair Fare (Fair Food)
7.15(A)	Write an imaginative story	Shipwrecked! (Livestock)
7.17(D)	Produce a multimedia presentation involving text and graphics using available technology	Shipwrecked! (Livestock) Big Tex 2.0 (Big Tex)
7.23(A)	Follow the research plan to gather information from a range of relevant print and electronic sources using advanced search strategies	Fair Fare (Fair Food)
7.25(A)	Draws conclusions and summarizes or paraphrases the findings in a systematic way	Fair Fare (Fair Food)
<b>Mathematics</b>		
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)

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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)
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)
<b>Science</b>		
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(B)	distinguish between physical and chemical changes in matter in the digestive system; and	Sugar Rush! (Fair Food)
7.6(C)	recognize how large molecules are broken down into smaller molecules such as carbohydrates can be broken down into sugars.	Sugar Rush! (Fair Food)

# Grade 7

## List of TEKS by Grade Level



7.7(A)	contrast situations where work is done with different amounts of force to situations where no work is done such as moving a box with a ramp and without a ramp, or standing still;	The Big Tex Workout (Big Tex)
7.7(C)	demonstrate and illustrate forces that affect motion in everyday life such as emergence of seedlings, turgor pressure, and geotropism.	The Big Tex Workout (Big Tex)
7.8(A)	predict and describe how different types of catastrophic events impact ecosystems such as floods, hurricanes, or tornadoes;	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 sexual reproduction or asexual 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)
<b>Social Studies</b>		
7.2(B)	Identify important individuals, events, and issues related to European exploration of Texas	Divide & Conquer! (Midway)
7.8(A)	Create and interpret thematic maps, graphs, charts, models, and databases representing various aspects of Texas during the 19th, 20th, and 21st centuries	Shipwrecked! (Livestock)
7.9(B)	Compare places and regions of Texas in terms of physical and human characteristics	Shipwrecked! (Livestock) Big Tex 2.0 (Big Tex)
7.19(B)	Describe how people from various racial, ethnic, and religious groups attempt to maintain their cultural heritage while adapting to the larger Texas culture	Big Tex 2.0 (Big Tex)
7.19(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	Shipwrecked! (Livestock) Fair Fare (Fair Food)
7.19(D)	Identify contributions to the arts by Texans	Fair Fare (Fair Food)
7.20(D)	Evaluate the effects of scientific discoveries and technological innovations on the use of resources such as fossil fuels, water, and land	Big Tex 2.0 (Big Tex)
7.21(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	Divide & Conquer! (Midway)
7.21(C)	Organize and interpret information from outlines, reports, databases, and visuals, including graphs, charts, timelines, and maps	Fair Fare (Fair Food)



# Grade 7

## List of TEKS by Grade Level



7.21(D)	Identify points of view from the historical context surrounding an event and the frame of reference that influenced the participants	Divide & Conquer! (Midway)
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# Grade 8

## List of TEKS by Grade Level



TEKS	description	...is found in these lessons:
<b>Art (Visual)</b>		
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)

# Grade 8

## List of TEKS by Grade Level



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)
<b>English Language Arts and Reading (ELAR)</b>		
8.12(B)	Evaluate graphics for their clarity in communicating meaning or achieving a specific purpose.	What's It Gonna Cost Me... (Livestock)
8.13(A)	Evaluate the role of media in focusing attention on events and informing opinion on issues	Iconic Edibles (Fair Food)
8.13(B)	Interpret how visual and sound techniques	Iconic Edibles (Fair Food)
8.14	Students use elements of the writing process (planning, drafting, revising, editing, and publishing) to compose text	Iconic Edibles (Fair Food)
8.15(A)	Write an imaginative story	What's It Gonna Cost Me... (Livestock)
8.17(A)	Write a multi-paragraph essay to convey information about a topic	Games, Rides, and Fun! (Midway)
8.17(B)	Write a letter that reflects an opinion, registers a complaint, or requests information in a business or friendly context	Friends of Big Tex (Big Tex)
8.23(A)	Follow the research plan to gather information from a range of relevant print and electronic sources using advanced search strategies	Friends of Big Tex (Big Tex)
8.27	Students are expected to advocate a position using anecdotes, analogies, and/or illustrations, and use 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)
<b>Mathematics</b>		
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)

# Grade 8

## List of TEKS by Grade Level



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)
<b>Science</b>		
8.1(B)	practice appropriate use and conservation of resources, including disposal, reuse, or recycling of materials.	Art Saves Lives (Livestock)
8.2(B)	design and implement comparative and 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 law of inertia, law of force and acceleration, and law of action-reaction such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches.	A Ride Through Newton's Laws (Midway)

# Grade 8

## List of TEKS by Grade Level



8.11(A)	describe producer/consumer, predator/prey, and parasite/host relationships as they occur in food webs within marine, freshwater, and terrestrial ecosystems;	Art Saves Lives (Livestock)
8.11(B)	investigate how organisms and populations in an ecosystem depend on and may compete for biotic and abiotic factors such as quantity of light, water, range of temperatures, or soil composition;	Art Saves Lives (Livestock)
<b>Social Studies</b>		
8.10(A)	Locate places and regions of importance in the United States during the 17th, 18th, and 19th centuries	Friends of Big Tex (Big Tex)
8.12(D)	Analyze the causes and effects of economic differences among different regions of the United States at selected times in U.S. history	Games, Rides, and Fun! (Midway)
8.14(B)	Describe the characteristics and the benefits of the U.S. free enterprise system during the 18th and 19th centuries	What's It Gonna Cost Me... (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)	Describe developments in art, music, and literature that are unique to American culture	Iconic Edibles (Fair Food)
8.26(C)	Analyze the relationship between fine 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 computer software, databases, media and news services, biographies, interviews, and artifacts to acquire information about the United States	What's It Gonna Cost Me... (Livestock) Friends of Big Tex (Big Tex)
8.29(C)	Organize and interpret information from outlines, reports, database, and visuals including graphs, charts, timelines, and maps	What's It Gonna Cost Me... (Livestock) Games, Rides, and Fun! (Midway)
8.30(D)	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)