2020 Planting the Seed Curriculum Alignment

Grades 2-5

Second Grade
Concepts Addressed
Science TEKS

1A) hand washing
1B) safety on the farm & machinery
1B) water cycle
1B) natural resources
2A) ask questions about organisms
2B) plan & conduct how org. grow
2C) data collections
2D) meas. & recording of plant growth
2E) communicate observations
2F) compare and communicate results
3A) identify and solve problems
3B) make predictions
3C) farmers as scientists
4A) weather instruments/rain gauges
4B) measure & compare organisms
5A) classify soil types
5B) light & heat energy, & plant growth
5D) sand/silt/clay/organic matter
6A) light's effect on plants
7A) soil particle size
7B) salt water/fresh water
7C) water as a resource
8A) graph weather information
8B) cold & warm season crops
9A) plant needs
9B) growing seasons for crops
9B) plant growth cycles
9C) organisms and soil
10A) cattle + forage =beef
10A) animal basic needs
10B) describe student's plant growth
10B) plant parts and their use

TEXAS FARM BUREAU

Second Grade
Concepts Addressed
Mathematics TEKS

1A) apply math to everyday problems
1C) tools & techniques to solve problems
1D) graphing plant growth
1E) create & use representations to communicate math ideas
1F) analyze and compare plant growth
1G) display and justify may ideas using precise math language
4A) recall basic facts and add & subtract within 20
4B) add up to four two-digit numbers & subtract
9A) find the length of objects with standard units of length
9D) determine the length off object using measuring tool
10A) explain the length of bar graph and what it represents
10B) graph plant growth data on a bar graph
10C) write and solve word problems from a bar graph
10D) draw conclusions and make predictions from graph; plant growth predictions

TEXAS FARM BUREAU

Second Grade
Concepts Addressed
Language Arts and Reading TEKS

18A) literary texts
19A) expository and procedural texts
19B) thank you note to a farmer
20) develop persuasive texts
21A) use proper parts of speech
21B) complete sentences
21C) statement vs. questions
22A) write legibly
22B) proper capitalization
22C) proper punctuation
23A) phonetics
23B) proper spelling & orthographic patterns
23C) spell high-frequency words
23D) base words & endings
23E) contractions
23F) use resources for spelling
24A) generate questions
24B) relevant sources for info
25A) gather evidence from experts
25B) use text to locate info
25C) graph plant growth
26) clarify research questions
27) visually display research
28A) listen attentively
29) speak clearly & on topic
30) work in teams to participate in discussion & ask questions

TEXAS FARM BUREAU

Third Grade
Concepts Addressed
Science TEKS

1A) safety on the farm & machinery
1B) conservation of resources
2A) ask questions about organisms
2B) collect data
2C) use of bar graphs to record data
2D) analyze data to provide explanations
2F) communicate valid conclusions
3A) critical thinking in scientific observations
3B) infer & evaluate accuracy of food labels
3D) farmer's role as scientists
4A) weather instruments such as rain gauges
5B) solid/liquid/gas of the water cycle
5C) light/heat energy from the sun
5D) mixture-sand, silt, and clay=loam
6A) types of energy used
7A) soil formation by weathering & decomposition
7C) how nat. resources are used in products
8A) role of weather changes in crops
8B) sun's role in the water cycle
9A) environments suitable for farming
9B) food chain, pollinators
9C) environmental changes such as floods/droughts
10A) plant structures & survival
10B) life cycle changes of a plant

TEXAS FARM BUREAU

Third Grade
Concepts Addressed
Mathematics TEKS

1A) apply math to everyday problems
1B) problem solving model including steps
1C) tools & techniques to solve problems
1D) graphing plant growth
1E) create & use representations to communicate math ideas
1F) analyze and compare plant growth
1G) display and justify may ideas using precise math language
4A) add & subtract within 1000
4B) round to nearest 10^{th}, measuring plants in mm
8A) summarize data with bar graph
8B) solve one- or two-step problems with bar graph

Italics = STAAR Process Standard
Bold = STAAR Readiness Standard

TEXAS FARM BUREAU

Third Grade
Concepts Addressed
Language Arts and Reading TEKS

18A) literary texts
19) write about personal experiences
20B) thank you note to farmers
21) write persuasive texts
22A) use proper parts of speech
22B) complete sentences
22C) subject/verb agreement
23A) write legibly
23B) proper capitalization
23C) proper punctuation
23D) paragraph indentions
24A) word segmentation to spell
24B) proper spelling & orthographic patterns
24C) spell high-frequency words
24D) words with common syllable construction
24F) contractions
24G) use resources for spelling
25A) generate questions
25B) relevant sources for info
26A) gather evidence from experts
27) use info from experts to clarify questions
29A) listen attentively
30) speak clearly & on topic
31) work in teams to participate in discussion & ask questions

TEXAS FARM BUREAU

Fourth Grade
Concepts Addressed
Science TEKS

1A) safety on the farm & machinery
1B) conservation of natural resources
2A) ask questions about organisms
2B) collect data
2C) use of bar graphs to record data
2D) analyze data to provide explanations
2F) communicate valid conclusions
3A) critical thinking in scientific observations
3B) infer & evaluate accuracy of food labels
3D) farmer's role as scientists
4A) observations in the natural world
5A) water cycle and the states of matter
5B) mixtures of soil
6A) types of energy used
7A) properties of soil & ability to support plants
7B) erosion
7C) renewable vs. non-renewable resources
8A) weather predictions & changes
8B) water conservation/irrigation
9A) producers' needs vs. consumers' needs for food
9B) food webs
10A) adaptations
10B) inherited traits
10C) compare life cycles

TEXAS FARM BUREAU

Fourth Grade
Concepts Addressed
Mathematics TEKS

1A) apply math to everyday problems
1B) problem solving model including steps
1C) tools & techniques to solve problems
1D) graphing plant growth
1E) create & use representations to communicate math ideas
1F) analyze and compare plant growth
1G) display and justify may ideas using precise math language
4A) add & subtract whole numbers and decimals
8A) measurement units within customary or metric

Italics = STAAR Process Standard
Bold = STAAR Readiness Standard

TEXAS FARM BUREAU

Fourth Grade
Concepts Addressed
Language Arts and Reading TEKS

16A) literary texts
17) write about personal experiences
18B) thank you note to farmers
19) write persuasive texts
20A) use proper parts of speech
20B) complete subject sentences
20C) subject/verb agreement
21A) write legibly
21B) proper capitalization
21C) proper punctuation

22A) proper spelling & orthographic patterns
22B) base words & roots with affixes
22D) use resources for spelling
23A) generate questions
23B) relevant sources for info
24A) gather evidence from experts
25) use info from experts to clarify questions
27A) listening and speaking skills
28) speak clearly & on topic
29) work in teams to participate in discussion & ask questions

Bold = STAAR Readiness Standard

TEXAS FARM BUREAU

Fifth Grade
Concepts Addressed
Science TEKS

1A) safety on the farm & machinery
2B) ask questions about organisms
2C) collect data
2D) analyze data to provide explanations
2F) communicate valid conclusions
3A) critical thinking in scientific observations
3B) infer & evaluate accuracy of food labels
3C) farmer's role as scientists
4A) observations in the natural world
5A) water cycle and the states of matter
5B) mixtures of soil
6A) types of energy used
7B) erosion
8A) weather vs. climate
8B) sun's effect on water cycle
9A) organisms interaction with environment
9B) flow of energy through food webs
9C) organisms influence on environment
9D) carbon dioxide cycle importance to plants
10A) structures of different species
10B) inherited traits

Italics = STAAR Scientific Investigation & Reasoning Skills
Bold = STAAR Readiness Standard

TEXAS FARM BUREAU

Fifth Grade
Concepts Addressed
Mathematics TEKS

1A) apply math to everyday problems
1B) problem solving model including steps
1C) tools & techniques to solve problems
1D) graphing plant growth
1E) create & use representations to communicate math ideas
1F) analyze and compare plant growth
1G) display and justify math ideas using precise math language
2C) round decimals when charting plant growth
3A) estimate to determine solutions to real-world problems
7) measurement units within customary or metric
9A) chart plant growth on a bar graph

TEXAS FARM BUREAU

Fifth Grade
Concepts Addressed
Language Arts and Reading TEKS

16) literary texts
17) write about personal experiences
18B) thank you note to farmers
19) write persuasive texts
20A) use proper parts of speech
20B) complete subject sentences
20C) subject/verb agreement
21A) proper capitalization
21B) proper punctuation
22A) proper spelling & orthographic patterns
22D) use resources for spelling
23A) generate questions
24A) gather evidence from experts
25A) use info from experts to clarify questions
27A) listening to speakers message
27C) main & supporting ideas of speakers message
28) speak clearly & on topic
29) work in teams to participate in discussion & ask questions

TEXAS FARM BUREAU