

2018
Planting the Seed
Curriculum
Alignment

Grades 2-5

Second Grade Curriculum Alignment Texas Essential Knowledge and Skills

Science

1. (A), (B), (C)
2. (A), (B), (C), (D), (E), (F)
3. (A), (B), (C)
4. (A), (B)
5. (A), (B), (D)
6. (A)
7. (A), (B), (C)
8. (A), (B), (C)
9. (A), (B), (C)
10. (A), (B)

Mathematics

1. (A), (C), (D), (E), (F), (G)
4. (A), (B)
9. (A), (D)
10. (A), (B), (C), (D)

Language Arts and Reading

18. (A)
19. (A), (B)
- 20.
21. (A), (B), (C)
22. (A), (B), (C)
23. (A), (B), (C), (D), (E), (F)
24. (A), (B)
25. (A), (B), (C)
- 26.
- 27.
28. (A)
- 29.
- 30.

Second Grade Concepts Addressed Science TEKS

- 1A) hand washing
- 1B) safety on the farm & machinery
- 1C) water cycle
- 1C) 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
- 8C) water cycle
- 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

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 math 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 of 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

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

Third Grade Curriculum Alignment Texas Essential Knowledge & Skills

Science

1. (A), (B)
2. (A), (B), (C), (D), (F)
3. (A), (B), (D)
4. (A)
5. (B), (C), (D)
6. (A)
7. (A), (C), (D)
8. (A), (B)
9. (A), (B), (C)
10. (A), (B), (C)

Mathematics

1. (A), (B), (C), (D), (E), (F), (G)
4. (A), (B)
8. (A), (B)

Language Arts and Reading

18. (A)
- 19.
20. (B)
- 21.
22. (A), (B), (C)
23. (A), (B), (C), (D),
24. (A), (B), (C), (D), (F), (G)
25. (A), (B)
26. (A)
- 27.
29. (A),
- 30.
- 31.

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) landforms in farming; mountains, hills
- 7D) 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) traits of parent plants
- 10C) life cycle changes of a plant

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 math ideas using precise math language*

4A) add & subtract within 1000

4B) round to nearest 10th, 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

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

Fourth Grade Curriculum Alignment Texas Essential Knowledge & Skills

Science

1. (A), (B)
2. (A), (B), (C), (D), (F)
3. (A), (B), (D)
4. (A)
5. (A), (B), (C)
6. (A)
7. (A), (B), (C)
8. (A), (B)
9. (A), (B)
10. (A), (B), (C)

Mathematics

1. (A), (B), (C), (D), (E), (F), (G)
4. (A)
8. (A)

Language Arts and Reading

16. (A)
- 17.
18. (B)
- 19.
20. (A), (B), (C)
21. (A), (B), (C)
22. (A), (B), (D)
23. (A), (B),
24. (A)
- 25.
27. (A)
- 28.
- 29.

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) heat and light energy
- 5C) 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

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

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

Fifth Grade Curriculum Alignment Texas Essential Knowledge & Skills

Science

1. (A)
2. (B), (C), (D), (F)
3. (A), (B), (D)
4. (A)
5. (A), (C)
6. (A)
7. (B), (C), (D)
8. (A), (B)
9. (A), (B), (C), (D)
10. (A), (B)

Mathematics

1. (A), (B), (C), (D), (E), (F), (G)
2. (C)
3. (A)
- 7.
9. (A)

Language Arts and Reading

- 16.
- 17.
18. (B)
- 19.
20. (A), (B), (C)
21. (A), (B)
22. (A), (D)
23. (A)
24. (A)
25. (A)
27. (A), (C)
- 28.
- 29.

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*

3D) *farmer's role as scientists*

4A) *observations in the natural world*

5A) water cycle and the states of matter

5C) mixtures of soil

6A) types of energy used

7B) erosion

7C) biofuels

7D) fossils remain as nutrients

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

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

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