

## Science Streamlined TEKS Changes

### K-5 Scientific Investigation and Reasoning

- Across the grade levels: Replaced – *the Texas Safety Standards* with **Texas Education Agency-approved safety standards** (K.1, 1.1, 2.1, 3.1, 4.1, 5.1)
- TEKS statement clarified: *Scientific inquiry methods* replaced with **scientific practices** (3.2, 4.2, and 5.2)
- Wind socks removed in kinder (K.4A)
- Primary balances removed in grade 2 (2.4A)
- Product claims and advertisement removed in grades 3-5 (3.3B, 4.3B, 5.3B)
- Specificity of balances removed in grades 4 and 5 (4.4A and 5.4A)
- Wind socks introduced in grade 1 (1.4A)
- Pan balance introduced in grade 3 (3.4A)
- K.1C, 1.1C, 2.1C becomes K.1B, 1.1B, 2.1B
- 3.3C-D, 4.3C-D, 5.3C-D becomes 3.3B-C, 4.3B-C, 5.3B-C

### K-5 Matter and Energy

- Solutions included as a type of mixture in grade 4 (4.5B)
- Water is used as the reference point of relative density in grade 5 (5.5A)
- Heating and cooling removed in grade 4 (4.5B)
- Boiling and freezing/melting points removed in grade 5 (5.5B)
- Condensation introduced in grade 3 (3.5C); formerly in grade 2 (2.8C)
- Grade 1: 1.5A splits off to become 1.5C
- Grade 4: 4.5C becomes 4.5B
- Grade 5: 5.5C becomes 5.5B
- Grade 5: 5.5D becomes 5.5C

### K-5 Force, Motion, and Energy

- Thermal energy has replaced heat energy in all grades K-5
- Types of experiments are defined (4.6D and 5.6D)
- Change in location of an object removed in grade 1 (1.6C)
- Work and pulleys removed in grade 3 (3.6B)
- Electromagnets removed in grade 4 (4.6C)
- Electric current removed in grade 5 (5.6B)
- Grade 1: 1.6D becomes 1.6C
- Grade 2: 2.6D becomes 2.6C

The statements on this document may be shortened or abbreviated. Refer to the full TEKS documents for additional clarity and details.

## Science Streamlined TEKS Changes

### K-5 Earth Science

- Fossils (5.7D) moved to Organisms and Environments (5.9D)
- Clouds removed in grade 1 (1.8B)
- Water cycle removed in grades 2 and 3 (2.8C and 3.8B)
- Landforms removed in grade 3 (3.8C)
- Weather maps removed in grade 4 (4.8A); refer to grade 8 (8.10B)
- Tides (4.8C) removed in grade 4; refer to grade 8 (8.7C)
- Alternative energy resources removed in grade 5 (5.7C); refer to grade 6 (6.7)
- Water cycle introduced in grade 4 (4.8B)
- Grade 2: 2.8D becomes 2.8C
- Grade 3: 3.7D becomes 3.7C
- Grade 5: 5.7D becomes 5.9D

### K-5 Organisms and Environments

- Different life cycle examples in each grade level, specifically grades 2 and 4 (2.10C and 4.10C)
- *Lady bugs* changed to *lady beetles* in grade 3 (3.10B)
- *Adaptations* changed to *structures and functions* in grade 4 (4.10A)
- Inherited traits and learned behaviors removed in grade 3 (3.10B)
- Carbon dioxide/oxygen cycle removed in grade 5 (5.9D)
- Incomplete and complete metamorphosis removed in grade 5 (5.10C)
- Inherited traits introduced in grade 4 (4.10B)
- Grade 3: 3.10C becomes 3.10B
- Grade 5: 5.9D was 5.7D

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## Science Streamlined TEKS Changes

### 6-8 Scientific Investigation and Reasoning

- Across the grade levels: Clarified: **Texas Education Agency-approved safety standards:** Removed – *the Texas Safety Standards* (6.1, 7.1, and 8.1)
- TEKS statement clarified: *scientific inquiry methods* replaced with *scientific practices* (6.2, 7.2, and 8.2)
- Clarification of *necessary* equipment indicates that other equipment not specifically listed may be required to adequately support student mastery of science content (6.4, 7.4, and 8.4)
- Specificity of types of “balances” removed in grade 6

### 6-8 Matter and Energy

- Clarified that compounds are pure substances (6.5A)
- Deleted TEKS 6.5C addressed in 6.5A (elements vs. compounds)
- Change from *debate* to *discuss* reduces instructional time (6.7)
- Cycling of matter addressed in Biology
- Organic compounds introduced in Biology
- Specificity of physical and chemical changes removed in grade 7
- Conservation of mass is addressed in 8.5E and requires conceptual understanding; balancing chemical equations is addressed in IPC and Chemistry

### 6-8 Force, Motion, and Energy

- Work is now introduced in Physics
- Specificity of energy transformations removed in grade 7
- Alternative energy resources removed from grade 5 and now introduced in grade 6

### 6-8 Earth Science

- Specificity of Galilean moons removed in grade 6; avoids misconception that Jupiter is the only planet other than Earth that has moons
- Tides introduced in grade 8 (removed from grade 4)
- Weather maps introduced in grade 8 (removed from grade 4)

### 6-8 Organisms and Environments

- Revision to 6.12B addresses misconception that presence of a nucleus is the *only* factor that determines whether a cell is prokaryotic or eukaryotic
- Parasite and host relationships introduced in Biology
- CO<sub>2</sub>-O<sub>2</sub> cycle removed from grade 5, so photosynthesis first introduced in grade 7

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## Science Streamlined TEKS Changes

### Biology - Changes and Implications

- B.5B: Deleted *Examine specialized cells, including ...* (Will still need to review and look at plant parts in B.10B)
- B.6H: Deleted *Describe how techniques such as ...* (Could still be tested with mutations in B.6E)
- B.9A: Removed – *structures and* (Provides additional instructional time)
- B.11A: Deleted *describe the role of internal feedback mechanisms...* (Provides additional instructional time; will still need to be connected to homeostasis in B.4B)
- B.11B: Deleted *investigate and analyze how organisms, populations, and communities...* (Taught in grade 8; provides additional instructional time)
- B.12D: Deleted *Recognize that long term survival of species is dependent on changing resources...* (Taught in grade 8; provides additional instructional time)

Deletions from middle school that result in “first teach” for biology

- 7.5B: deleted TEKS – demonstrate and explain the cycling of matter within living systems such as in the decay of biomass in a compost bin
- 7.6A: deleted TEKS – identify that organic compounds contain carbon and other elements such as hydrogen, oxygen, phosphorous, nitrogen, or sulfur
- 7.6C: deleted TEKS – recognize how large molecules are broken down into smaller molecules such as carbohydrates can be broken down into sugars
- 8.11A: deleted TEKS – *describe producer/consumer, predator/prey, and parasite/host relationships as they occur in food webs within marine, freshwater, and terrestrial ecosystems.*

### Chemistry - Changes and Implications

- Curricular references to MSDS need to be updated to SDS
- Removal of calculations or portions of calculations (6C, 8C, 8E, 10I, 11C, 11E) provides more instructional time for other topics.
- Limiting electron configurations to representative elements simplifies topic.
- “Classifying” instead of “predicting” molecular structure (7E) simplifies topic.
- Prior grade level deletions (such as 8.5F) result in “first teach” for chemistry.
- Shuffling and splitting of SEs will require recoding of curriculum, instructional materials, and assessments

### IPC - Changes and Implications

- Curricular references to MSDS need to be updated to SDS.
- Removal of content pieces (4G, 6A, 6B, 6E) provide a little more instructional time for other topics.
- Updates to verbs (4D, 4E, 5B, 7D) clarify intent of expectations and in some cases simplify topic.
- Prior grade level deletions (such as 8.5F) result in “first teach” for IPC.
- Splitting of SEs (6F) will require recoding of curriculum, instructional materials, and assessments

### Physics - Changes and Implications

- Shifting designation (from “including” to “such as”) and removal of selected tools lessened the equipment burden (see 2F vs. 2G).
- Shuffling and splitting of SEs will require recoding of curriculum, instructional materials, and assessments.
- Removal of content, content pieces, or verbs (5A, 5G, 5H, 6E, 6G, 7F) provide more instructional time for other topics.
- Updates to verbs or verb context (4A, 5F, 8C) clarify intent of expectations.
- Prior grade level deletions may result in “first teach” for physics.
- Shuffling and splitting of SEs will require recoding of curriculum, instructional materials, and assessments.