

Weather and Climate Level 6-9

ELC-5028

Texas TEKS Standards Aligned with CC

NGSS Standards and Corresponding TEKS Standards

1. **NGSS 4-ESS2-1**

- **TEKS Standard:** 4.7B

- Examine properties of soils, including color and texture, capacity to retain water, and ability to support the growth of plants.

2. **NGSS MS-ESS2-5**

- **TEKS Standard:** 8.10C

- Identify the role of the oceans in the formation of weather systems such as hurricanes.

3. **NGSS MS-ESS2-6**

- **TEKS Standard:** 8.10B

- Analyze the effects of weathering, erosion, and deposition on the environment in ecoregions of Texas.

4. **NGSS MS-ESS3-5**

- **TEKS Standard:** 8.11C

- Explore how short- and long-term environmental changes affect organisms and traits in subsequent populations.

5. **NGSS MS-LS2-1**

- **TEKS Standard:** 7.5A

- Recognize that radiant energy from the Sun is transformed into chemical energy through the process of photosynthesis.

6. **NGSS MS-LS2-2**

- **TEKS Standard:** 7.5B

- Diagram the flow of energy through living systems, including food chains, food webs, and energy pyramids.

7. **NGSS MS-LS2-3**

- **TEKS Standard:** 7.7B

- Illustrate the cycling of matter within living systems such as in the decay of biomass in a compost bin.

8. **NGSS MS-LS2-4**

- **TEKS Standard:** 8.11A

- Describe producer/consumer, predator/prey, and parasite/host relationships as they occur in food webs within marine, freshwater, and terrestrial ecosystems.

9. **NGSS MS-ESS3-4**

- **TEKS Standard:** 8.11B

- Investigate how organisms and populations in an ecosystem depend on and may compete for biotic and abiotic factors.

Common Core Standards and Corresponding TEKS Standards

1. **Common Core RST.6-8.1**

- **TEKS Standard:** 6.10A

- Explain the impact of scientific research on society and the environment.

2. **Common Core RST.6-8.7**

- **TEKS Standard:** 6.2C

- Collect, record, and analyze information using tools including laboratory equipment, calculators, and computers.

3. **Common Core RST.6-8.9**

- **TEKS Standard:** 7.3A

- Analyze and evaluate scientific explanations using empirical evidence, logical reasoning, and experimental and observational testing.

4. **Common Core RI.5.7**

- **TEKS Standard:** 5.12B

- Locate and use primary and secondary sources to investigate and answer questions and solve problems.

5. **Common Core SL.5.5**

- **TEKS Standard:** 5.5A

- Analyze how multimedia elements contribute to the meaning, tone, or beauty of a text.

6. **Common Core SL.8.5**

- **TEKS Standard:** 8.27A

- Use comprehension skills to listen attentively to others in formal and informal settings.

7. **Common Core RI.6.8**

- **TEKS Standard:** 6.9D

- Distinguish between fact and opinion in a text and explain how to verify what is a fact.

8. **Common Core WHST.6-8.1**

- **TEKS Standard:** 6.10B

- Develop and follow a research plan with the goal of finding solutions to real-world problems.

9. **Common Core 6.EE.C.9**

- **TEKS Standard:** 6.6C

- Write and solve equations using variables to represent quantities.