

Weather and Climate Level 6-9

ELC-5028

California Standards Aligned with CC

NGSS Standards and Corresponding California Standards

1. NGSS 4-ESS2-1

- **California Standard:** 4-ESS2-1

- Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.

2. NGSS MS-ESS2-5

- **California Standard:** MS-ESS2-5

- Collect data to provide evidence for how the motions and complex interaction of air masses results in changes in weather conditions.

3. NGSS MS-ESS2-6

- **California Standard:** MS-ESS2-6

- Develop and use a model to describe how unequal heating and rotation of the earth cause patterns of atmospheric and oceanic circulation that determine regional climates.

4. NGSS MS-ESS3-5

- **California Standard:** MS-ESS3-5

- Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.

5. NGSS MS-LS2-1

- **California Standard:** MS-LS2-1

- Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.

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

- **California Standard:** MS-LS2-2

- Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.

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

- **California Standard:** MS-LS2-3

- Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.

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

- **California Standard:** MS-LS2-4

- Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations.

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

- **California Standard:** MS-ESS3-4

- Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Common Core Standards and Corresponding California Standards

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

- **California Standard:** CA.RST.6-8.1

- Cite specific textual evidence to support analysis of science and technical texts.

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

- **California Standard:** CA.RST.6-8.7

- Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually.

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

- **California Standard:** CA.RST.6-8.9

- Compare and contrast the information gained from experiments, simulations, video or multimedia sources with that gained from reading a text on the same topic.

4. **Common Core RI.5.7**

- **California Standard:** CA.RI.5.7

- Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.

5. **Common Core SL.5.5**

- **California Standard:** CA.SL.5.5

- Include multimedia components and visual displays in presentations when appropriate to enhance the development of main ideas or themes.

6. **Common Core SL.8.5**

- **California Standard:** CA.SL.8.5

- Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.

7. **Common Core RI.6.8**

- **California Standard:** CA.RI.6.8

- Trace and evaluate the argument and specific claims in a text, distinguishing claims that are supported by reasons and evidence from claims that are not.

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

- **California Standard:** CA.WHST.6-8.1

- Write arguments focused on discipline-specific content.

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

- **California Standard:** CA.6.EE.C.9

- Use variables to represent two quantities in a real-world problem that change in relationship to one another.