

Cowboy Astronomer Educational Standards

Grade 4

CTE.4.2.1

Analyze how doing well in school affects future career opportunities.

SC.4.8.3

Describe the relationship between the sun and the Earth's daily rotation and annual revolution.

LA. 4.2.4

Explain how a theme is used across various genres and texts.

Grade 5

SC.5.6.3

Compare what happens to light when it is reflected, refracted and absorbed.

SC.5.8.2

Describe examples of what astronomers have discovered using telescopes.

SC.5.8.4

Demonstrate that day and night are caused by the rotation of the Earth on its axis.

Grade 6

LA.6.6.4

Use appropriate listening strategies (eg listening attentively, taking notes, asking questions) to learn from an oral presentation.

SC.6.6.4

Describe and give examples of different types of energy waves.

Grade 7

SC.7.1.3

Explain the need to revise conclusions and explanations based on new scientific evidence.

Grade 8

- SC.8.6.1** Explain the relationship between the color of light and wavelength within the electromagnetic spectrum.
- SC.8.8.8** Describe the composition of objects in the galaxy.
- SC.8.8.11** Describe the major components of the universe.

Physical Science

- SC.PS.6.12** Describe nuclear reactions and how they produce energy.
- SC.PS.1.7** Revise as needed, conclusions and explanations based on new evidence.

Earth and Space Science

- SC.ES.8.9** Describe the physical and nuclear dynamics involved in the life cycle of a star.

Chemistry

- SC.CH.1.9** Explain how scientific explanations must meet a set of established criteria to be considered valid

Biology

- SC.BS.1.9** Explain how scientific explanations must meet a set of established criteria to be considered valid

World Literature

- LA.WL.2.2** Compare World Literature across time and genre (eg archetype, cultural values, cultural tradition, philosophical roots)
- LA.WL.2.5** Differentiate the literary forms (eg myth, short story, haiku) and/or style (eg satire, parody, allegory, pastoral) of 2 more selections of World Literature from different cultures or time periods.