NM Next-Generation Astronomy Standards

1-ESS1-1 Earth's Place in the Universe (/pe/1-ess1-1-earths-placeuniverse)
- Use observations of the sun, moon, and stars to describe patterns that can be predicted.
- Performance Expectation | Grade: K-2, 1

1-ESS1-2 Earth's Place in the Universe (/pe/1-ess1-2-earths-placeuniverse)
- Make observations at different times of year to relate the amount of daylight to the time of year.
- Performance Expectation | Grade: K-2, 1

5-ESS1-1 Earth's Place in the Universe (/pe/5-ess1-1-earths-placeuniverse)
- Support an argument that the apparent brightness of the sun and stars is due to their relative distances from the Earth.
- Performance Expectation | Grade: 3-5, 5

5-ESS1-2 Earth's Place in the Universe (/pe/5-ess1-2-earths-placeuniverse)
- Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.
- Performance Expectation | Grade: 3-5, 5

MS-ESS1-1 Earth's Place in the Universe (/pe/ms-ess1-1-earthsplace-universe)
- Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.
- Performance Expectation | Grade: Middle School (6-8)

MS-ESS1-2 Earth's Place in the Universe (/pe/ms-ess1-2-earthsplace-universe)
- Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.
- Performance Expectation | Grade: Middle School (6-8)

MS-ESS1-3 Earth's Place in the Universe (/pe/ms-ess1-3-earthsplace-universe)
- Analyze and interpret data to determine scale properties of objects in the solar system.
- Performance Expectation | Grade: Middle School (6-8)

HS-ESS1-2 Earth's Place in the Universe (/pe/hs-ess1-2-earthsplace-universe)
- Construct an explanation of the Big Bang theory based on astronomical evidence of light spectra, motion of distant galaxies, and composition of matter in the universe.
- Performance Expectation | Grade: High School (9-12)

HS-ESS1-3 Earth's Place in the Universe (/pe/hs-ess1-3-earthsplace-universe)
- Communicate scientific ideas about the way stars, over their life cycle, produce elements.
- Performance Expectation | Grade: High School (9-12)

HS-ESS1-4 Earth's Place in the Universe (/pe/hs-ess1-4-earthsplace-universe)
- Use mathematical or computational representations to predict the motion of orbiting objects in the solar system.
- Performance Expectation | Grade: High School (9-12)

HS-ESS1-6 Earth's Place in the Universe (/pe/hs-ess1-6-earthsplace-universe)

- Apply scientific reasoning and evidence from ancient Earth materials, meteorites, and other planetary surfaces to construct an account of Earth's formation and early history.
- Performance Expectation | Grade: High School (9-12)

HS-ESS2-4 Earth's Systems (/pe/hs-ess2-4-earths-systems)

- Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate.
- Performance Expectation | Grade: High School (9-12)