



Assessable Science Standards

The NM-ASR assesses the New Mexico STEM Ready! Science Standards as follows:

- Grade 5 test: All standards in grades 3, 4, and 5, except 5-SS-1 NM.
- Grade 8 test: All standards in the middle school grade band (6-8), including MS-ESS3-3 NM.
- Grade 11 test: All standards in the high school grade band (9-12), except HS-LS2-7 NM and HS-SS-1 NM (but including HS-SS-2 NM).

** 1-SS-1 NM.

Obtain information about how men and women of all ethnic and social backgrounds in New Mexico have worked together to advance science and technology.

[Clarification Statement: Introduce the concept that regardless of ethnicity, gender, or social background, any person can contribute to advances in science and technology.]

5-SS-1 NM.

Communicate information gathered from books, reliable media, or outside sources, that describes how a variety of scientists and engineers across New Mexico have improved existing technologies, developed new ones, or improved society through applications of science.

MS-ESS3-3 NM.

Describe the advantages and disadvantages associated with technologies related to local industries and energy production.

[Clarification Statement: Examples may include examining short- and long-term impacts of related technologies on water usage (such as the withdrawal of water from streams and aquifers, the construction of dams and levees, or sewage treatment plants), land usage (such as urban development, agriculture, the removal of wetlands, or solar panel installation), pollution (such as of the air, water, or land), local employment, and economic stimulus.]

**HS-LS2-7 NM.

Using a local issue in your solution design, describe and analyze the advantages and disadvantages of human activities that support the local population such as reclamation projects, building dams, and habitat restoration.*

** HS-SS-1 NM.

Obtain and communicate information about the role of New Mexico in nuclear science and 21st century innovations including how the national laboratories have contributed to theoretical, experimental, and applied science; have illustrated the interdependence of science, engineering, and technology; and have used systems involving hardware, software, production, simulation, and information flow.

[Clarification Statement: Sandia National Laboratory, Los Alamos National Laboratory, Very Large Array, White Sands, Air Force Research Laboratory, Genome Research, New Mexico Tech, New Mexico State University, University of New Mexico, New Mexico Highlands University, etc.]

HS-SS-2 NM.

Construct an argument using claims, scientific evidence, and reasoning that helps decision makers with a New Mexico challenge or opportunity as it relates to science.

[Clarification Statement: Examples may include, but are not limited to, the Waste Isolation Pilot Plant (WIPP), mining, oil and gas production, solar energy production, environmental remediation, urbanization, water scarcity, forest fires, or flash floods.]

