Common Core State Standards:

Language Standards  Vocabulary, Acquisition and Use
Grade 5—4. a and c:
• #4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases…choosing flexibly from a range of strategies.
  • Use context as a clue to the meaning of a word or phrase
  • Consult reference materials (e.g. dictionaries, glossaries, thesauruses) both print and digital to find the pronunciation and determine or clarify the precise meaning of key words and phrases

Speaking and Listening Standards
Grade 5—1:
Engage effectively in a range of collaborative discussions (one-on-one, in groups and teacher-lead) with diverse partners on grade 5 topics and texts, building on others’ ideas and expressing their own clearly.

Writing to Build and Present Knowledge Standards
Grade 5
• #7 Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.
• #8 Recall relevant information from experiences or gather relevant information from print and digital sources, summarize or paraphrase information in notes and finished work, and provide a list of sources.

Reading for Informational Text Standards
Grade 5
• #9 Integrate information from several texts on the same topic in order to write or speak about the subject knowledgeably.

Language Standards 6-8: Vocabulary Acquisition and Use
• #6 Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases, gather vocabulary knowledge when considering a word or phrase important to comprehension of expression.

Reading Standards for Literacy in Science and Technical Subjects 6-8
Craft/Structure and Integration of Knowledge and Ideas
• #4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
• #7 Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g. in a flowchart, diagram, model, graph or table.)
Writing Standards for Literacy in Science and Technical Subjects
Research to Build and Present Knowledge

#7 Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related focused questions that allow for multiple avenues of exploration.

Mathematics:
Grade 5—Measurement and Data

#5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.

Grade 6—Statistics and Probability

#1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.

Grade 7—Geometry

#6 Solve real world and mathematical problems involving angle measure, area, surface area and volume.

New Mexico Science Standards:

Strand I: Scientific Thinking and Practice
Standard I: Understand the processes of scientific investigations and use inquiry and scientific ways of observing, experimenting, predicting, and validating to think critically.
5-8 Benchmark I: Use scientific methods to develop questions, design and conduct experiments using appropriate technologies, analyze and evaluate results, make predictions and communicate findings.

Grade 5, #1, 2, 3 and 5
Grade 6, # 3
Grade 7, #1 and 2
Grade 8, #1, 2 and 3

5-8 Benchmark III: Use mathematical ideas, tools and techniques to understand scientific knowledge.

Grade 5, #1, 2, 3, 4, 5
Grade 6, #1, 2
Grade 7, #1, 2, 3
Grade 8, #1

Strand II: Content of Science
Standard II Life Science: Understand the properties, structures and processes of living things and the interdependence of living things and their environment.

5-8 Benchmark I:
Grade 5, #3, 4
Grade 6, #1, 2
Grade 7, #4, 5
Grade 8, #1, 3
Next Generation Science Standards:

**Grade 5, Matter and Energy in Organisms and Ecosystems**
5LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.
Crosscutting Concepts-Energy and Matter: Matter is transported into, out of, and within systems

**Middle School, Matter and Energy in Organisms and Ecosystems**
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.
Disciplinary Core Ideas, LS2.A: Interdependent Relationships in Ecosystems
Science and Engineering Practices, Developing and Using Models

**National Educational Technology Standards for Students (NETS):**
**Grades 5-8**
NETS # 1 Creativity and Innovation
NETS # 2 Communication and Collaboration
NETS # 3 Research and Information Fluency
NETS # 4 Critical Thinking, Problem Solving and Decision Making
NETS # 6 Technology Operations and Concepts