

Grade Four Power Standards for Science

Power Standards are based on the Nevada State Standards. Power Standards are not meant to be taught sequentially. For pacing and instruction refer to the CEF and the K-5 Science and Technology Handbook. At a minimum, students will maintain previously learned skills and attain the following:

Strand	NV	CCSD Power Standards
Nature of Science <i>Scientific Inquiry</i> <i>Science, Technology, and Society</i>	N.5.A.1 N.5.A.3 N.5.A.4 N.5.A.5 N.5.A.6 N.5.A.7 N.5.B.1 N.5.B.2	Explain that scientific progress is made by conducting careful investigations, recording data, and communicating the results in an accurate method. [1.2, 1.3] Draw conclusions from scientific evidence. [1.2,] Make predictions using graphic representations of recorded data. [1.3] Plan and conduct a safe and simple investigation. [1.4, 1.5] Use models as tools for learning about the things they are meant to resemble. [1.6] Organize items and ideas based on observable patterns. [1.7] Explain that, throughout history, people of diverse cultures have provided scientific knowledge and technologies. [1.8] Describe how technologies impact society, both positively and negatively. [1.9]
Physical Science <i>Matter</i> <i>Forces and Motion</i> <i>Energy</i>	P.5.A.2 P.5.A.3 P.5.B.3 P.5.B.4 P.5.C.1 P.5.C.3 P.5.C.4 P.5.C.5	Explain that heating and cooling can change some common materials, such as water, from one state to another. [3.4] Classify objects by their observable physical and chemical properties (magnetism, conductivity, density, and solubility). [2.2, 2.5] Describe the way magnetic forces cause certain kinds of objects to attract and repel each other. [2.1] Explain that electrically charged particles can attract or repel other electrically-charged materials. [2.2] Describe light in terms of simple properties (color, brightness, reflection). [2.3] Explain that heat is often produced as a byproduct when one form of energy is converted to another form. [2.4] Explain that heat can move from one object to another by conduction, and some materials conduct heat better than others. [2.5] Explain the organization of simple electric circuits. [2.6]
Earth and Space Science <i>Atmospheric Processes and the Water Cycle</i> <i>Solar System and Universe</i> <i>Earth's Composition and Structure</i>	E.5.A.2 E.5.B.1 E.5.B.2 E.5.B.4 E.5.B.5	Describe the water cycle, including the role of the Sun. [3.2, 3.3, 3.4] State that the stars in the sky are not scattered evenly, and they are not all the same brightness or color. [3.6, 3.8, 3.10] Explain that the solar system includes the Sun, planets, and moons. [3.7, 3.9] Explain that the observable objects in the sky appear to move in cyclical patterns. [3.9] Describe that patterns of stars in the sky stay the same although they appear to move across the sky nightly, and different stars can be seen in different seasons. [3.9]
Life Science <i>Heredity</i> <i>Structure of Life</i> <i>Organisms and Their Environment</i> <i>Diversity of Life</i>	L.5.A.1 L.5.A.4 L.5.A.5 L.5.B.1	Describe some physical characteristics and behaviors that are inherited in animals and plants. [4.1] Describe and observe variations among individuals within the human population. [4.2] Describe learned behaviors in animals. [4.1] Explain that plants and animals have structures that enable them to grow, reproduce, and survive. [4.3]