

PRACTICE TEST ANSWER KEY

High School English & Spanish Science



Item Number	Key	Standards
1	D	09-12.I.I.II.01.a Scientific Thinking and Practice: Content Standard I: Benchmark II: Performance Standard 1.a: Understand how scientific processes produce valid, reliable results, including: consistency of explanations with data and observations.
2	C	09-12.II.I.I.02 Content of Science: Content Standard I: PHYSICAL SCIENCE: Benchmark I: Performance Standard 2: Properties of Matter: Identify, measure, and use a variety of physical and chemical properties (e.g., electrical conductivity, density, viscosity, chemical reactivity, pH, melting point).
3	C	09-12.II.III.II.01 Content of Science: Content Standard III: EARTH AND SPACE SCIENCE: Benchmark II: Performance Standard 1: Characteristics and Evolution of Earth: Describe the characteristics and the evolution of Earth in terms of the geosphere, the hydrosphere, the atmosphere, and the biosphere.
4	CR-4	09-12.I.I.I.02.c Scientific Thinking and Practice: Content Standard I: Benchmark I: Performance Standard 2.c: Design and conduct scientific investigations that include: methods to collect, analyze, and interpret data.
5	CR-2	09-12.II.III.II.07.a Content of Science: Content Standard III: EARTH AND SPACE SCIENCE: Benchmark II: Performance Standard 7.a: Energy in Earth's System: Describe convection as the mechanism for moving heat energy from deep within Earth to the surface and discuss how this process results in plate tectonics, including: geological manifestations (e.g., earthquakes, volcanoes, mountain building) that occur at plate boundaries.
6	B	09-12.I.I.I.02 Scientific Thinking and Practice: Content Standard I: Benchmark I: Performance Standard 2: Design and conduct scientific investigations.
7	C	09-12.I.I.I.04 Scientific Thinking and Practice: Content Standard I: Benchmark I: Performance Standard 4: Convey results of investigations using scientific concepts, methodologies, and expressions.
8	D	09-12.II.II.I.03 Content of Science: Content Standard II: LIFE SCIENCE: Benchmark I: Performance Standard 3: Ecosystems: Understand and describe how available resources limit the amount of life an ecosystem can support (e.g., energy, water, oxygen, nutrients).
9	A	09-12.II.II.II.12 Content of Science: Content Standard II: LIFE SCIENCE: Benchmark II: Performance Standard 12: Biological Evolution: Explain how natural selection favors individuals who are better able to survive, reproduce, and leave offspring.
10	B	09-12.II.II.I.05 Content of Science: Content Standard II: LIFE SCIENCE: Benchmark I: Performance Standard 5: Energy Flow in the Environment: Explain how matter and energy flow through biological systems (e.g., organisms, communities, ecosystems), and how the total amount of matter and energy is conserved but some energy is always released as heat to the environment.
11	CR-4	09-12.II.I.II.10 Content of Science: Content Standard I: PHYSICAL SCIENCE: Benchmark II: Performance Standard 10: Interactions of Energy and Matter: Explain how wavelengths of electromagnetic radiation can be used to identify atoms, molecules, and the composition of stars.

■ = Written response

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Item Number	Key	Standards
12	CR-2	09-12.II.I.III.05 Content of Science: Content Standard I: PHYSICAL SCIENCE: Benchmark III: Performance Standard 5: Forces: Know that there are four fundamental forces in nature: gravitation, electromagnetism, weak nuclear force, and strong nuclear force.
13	C	09-12.II.II.III.02 Content of Science: Content Standard II: LIFE SCIENCE: Benchmark III: Performance Standard 2: Structure and Function: Know that specialized structures inside cells in most organisms carry out different functions.
14	D	09-12.II.III.I.03 Content of Science: Content Standard III: EARTH AND SPACE SCIENCE: Benchmark I: Performance Standard 3: Understand how knowledge about the universe comes from evidence collected from advanced technology (e.g., telescopes, satellites, images, computer models).
15	C	09-12.II.I.III.04 Content of Science: Content Standard I: PHYSICAL SCIENCE: Benchmark III: Performance Standard 4: Forces: Understand the relationship between force and pressure, and how the pressure of a volume of gas depends on the temperature and the amount of gas.
16	CR-2	09-12.I.I.II.01.d Scientific Thinking and Practice: Content Standard I: Benchmark II: Performance Standard 1.d: Understand how scientific processes produce valid, reliable results, including: testability of hypotheses.
17	CR-4	09-12.II.II.II.13 Content of Science: Content Standard II: LIFE SCIENCE: Benchmark II: Performance Standard 13: Biological Evolution: Analyze how evolution by natural selection and other mechanisms explains many phenomena including the fossil record of ancient life forms and similarities (both physical and molecular) among different species.
18	D	09-12.I Scientific Thinking and Practice
19	D	09-12.I Scientific Thinking and Practice
20	A	09-12.I Scientific Thinking and Practice
21	A	09-12.I Scientific Thinking and Practice
22	CR-2	09-12.III.I.I.12 Science and Society: Content Standard I: Benchmark I: Performance Standard 12: Science and Society: Explain how societies can change ecosystems and how these changes can be reversible or irreversible.
23	CR-4	09-12.II.III.II.10.a Content of Science: Content Standard III: EARTH AND SPACE SCIENCE: Benchmark II: Performance Standard 10.a: Geochemical Cycles: Describe the composition and structure of Earth's materials, including: the major rock types (i.e., sedimentary, igneous, metamorphic) and their formation.