

Idaho Extended Standards Statements
Kindergarten
Science

Extended Standard 1: Nature of Science

Students explore the process of scientific investigation through observations and the concept of measurement. Students follow instructions and work with others.

Extended Standard 2: Concepts of Physical Science

Students use their senses to investigate objects and to identify similarities or patterns in the world around.

Extended Standard 3: Concepts of Biology

Students observe the characteristics of plants and animals.

Extended Standard 4: Earth and Space Systems

Students observe seasonal changes and identify characteristics between the four seasons.

Extended Standard 5: Personal and Social Perspectives; Technology

Students observe and participate in discussions about their local environments.

Idaho Extended Standards Statements
Grade 1
Science

Extended Standard 1: Nature of Science

Students explore the process of scientific investigation through observations and data collection, using units of measurement. Students follow instructions and work with others.

Extended Standard 2: Concepts of Physical Science

Students sort common objects by properties and observe how movement is a change of position.

Extended Standard 3: Concepts of Biology

Students explore the life cycles of living things and what they need to survive in their environment.

Extended Standard 4: Earth and Space Systems

Students observe and identify characteristics in the cycle of the seasons.

Extended Standard 5: Personal and Social Perspectives; Technology

Students match characteristics to local environments.

Idaho Extended Standards Statements
Grade 2
Science

Extended Standard 1: Nature of Science

Students respond to questions that can be answered through observation, collection, recording of data. Students classify items by its functional shape. Students follow instructions, work cooperatively and use communication skills.

Extended Standard 2: Concepts of Physical Science

Students sort objects by their properties and demonstrate the affect motion has on an object.

Extended Standard 3: Concepts of Biology

Students identify basic needs of animals.

Extended Standard 4: Earth and Space Systems

Students differentiate and respond to weather conditions.

Extended Standard 5: Personal and Social Perspectives; Technology

Students differentiate between man-made and natural environments. Students explore scientific tools.

Idaho Extended Standards Statements
Grade 3
Science

Extended Standard 1: Nature of Science

Students apply some of the steps in the scientific method to conduct experiments by asking questions, observing, collecting data, displaying data or providing an explanation of data. Students follow multi-step instructions.

Extended Standard 2: Concepts of Physical Science

Students observe the three states of matter and use scientific instruments to measure physical properties of liquid and solid.

Extended Standard 3: Concepts of Biology

Students explore the diversity of plants and animals in their environments. Students demonstrate a simple, basic food web.

Extended Standard 4: Earth and Space Systems

Students identify how the sun relates to days and seasons on Earth.

Extended Standard 5: Personal and Social Perspectives; Technology

Students participate in identifying local environmental issues. Students explore the relationship of tools to scientific investigation.

Idaho Extended Standards Statements
Grade 4
Science

Extended Standard 1: Nature of Science

Students follow the steps of the scientific methods to conduct simple experiments, selecting a reasonable explanation. Students follow multi-step instructions.

Extended Standard 2: Concepts of Physical Science

Students use scientific instruments and measure the properties of the states of matter.

Extended Standard 3: Concepts of Biology

Students identify how plants and animals adapt to their environments. Students sort vertebrates into groups.

Extended Standard 4: Earth and Space Systems

Students identify and explore basic contents of our solar system.

Extended Standard 5: Personal and Social Perspectives; Technology

Students understand how invented tools help meet a need or do a job.

Idaho Extended Standards Statements
Grade 5
Science

Extended Standard 1: Nature of Science

Students identify and classify components of a whole system. Students execute technical instructions and use procedures in the scientific method.

Extended Standard 2: Concepts of Physical Science

Students identify physical properties of solids, liquids, and gases and their relationship to an element, a mixture, or a compound.

Extended Standard 3: Concepts of Biology

Students explore differences between plant and animal cells. Students understand that plants need energy from the sun. Students identify traits passed from parents to offspring.

Extended Standard 4: Earth and Space Systems

Students describe interactions and changes that occur on Earth.

Extended Standard 5: Personal and Social Perspectives; Technology

Students identify environmental issues.

Idaho Extended Standards Statements
Grade 6
Science

Extended Standard 1: Nature of Science

Students differentiate between predictions, observations, and inferences. Students execute technical instructions.

Extended Standard 2: Concepts of Physical Science

Students compare the properties of elements, compounds and mixtures. Students identify effects of force and energy on objects.

Extended Standard 3: Concepts of Biology

Students identify basic differences in organisms.

Extended Standard 4: Earth and Space Systems

Students describe simple interactions between the solid earth, oceans, atmosphere, and organisms and how they are connected.

Extended Standard 5: Personal and Social Perspectives; Technology

Students identify renewable and nonrenewable resources and issues for environmental studies.

Idaho Extended Standards Statements
Grade 7
Science

Extended Standard 1: Nature of Science

Students carry out simple investigations using appropriate tools and equipment. Students make a simple inference based upon data collected. Students accurately communicate results of observations. Students identify reasonable conclusions. Students carry out investigations following lab procedures. Students follow safety protocols in carrying out investigations.

Extended Standard 2: Concepts of Physical Science

No goals or objectives at this grade level.

Extended Standard 3: Concepts of Biology

Students list cell parts and their respective functions. Students identify traits passed from one generation to another. Students differentiate between plant and animals cells and identify characteristic of each. Students communicate how organisms adapt to their environment and interact with the environment.

Extended Standard 4: Earth and Space Systems

No goals or objectives at this grade level.

Extended Standard 5: Personal and Social Perspectives; Technology

Students explore how science and technology interact and impact both individuals and society.

Idaho Extended Standards Statements
Grade 8-9
Physical Science

Extended Standard 1: Nature of Science

Students follow the basic tenets of scientific investigation by making accurate observations, applying proper scientific instruments and measurement tools, and communicating results. Students record accurate information by utilizing the tools of a simple investigation. Students participate in creating lab reports using graphs, charts, or diagrams to communicate results.

Extended Standard 2: Concepts of Physical Science

Students observe models showing the structure and properties of atoms. Students identify when chemical reactions occur, while requiring or releasing energy. Students demonstrate a simplified process of fission and fusion. Students explore interactions of force and mass in describing motion. Students identify when energy is transformed from one form to another. Students classify energy as potential and/or kinetic.

Extended Standard 3: Concepts of Biology

No goals or objectives

Extended Standard 4: Earth and Space Systems

No goals or objectives

Extended Standard 5: Personal and Social Perspectives; Technology

Students explore how science and technology interact and impact both society and the environment. Students identify environmental issues such as water and air quality, hazardous waste, renewable and nonrenewable resources.

Idaho Extended Standards Statements
Grade 8-9
Earth Science

Extended Standard 1: Nature of Science

Students follow the basic tenets of scientific investigation by making accurate observations, applying proper scientific instruments and measurement tools, and communicating results. Students record accurate information by utilizing the tools of a simple investigation. Students participate in creating lab reports using graphs, charts, or diagrams to communicate results.

Extended Standard 2: Concepts of Physical Science

No goals or objectives in Earth Science.

Extended Standard 3: Concepts of Biology

No goals or objectives

Extended Standard 4: Earth and Space Systems

Students describe the basic formation of the solar system, including Earth, sun, moon, planets, and stars. Students explore earth processes and events (erosion, uplifting, earthquakes, volcanic eruptions, etc.), and identify vocabulary used for geological time. Students describe the Earth's heat sources.

Extended Standard 5: Personal and Social Perspectives; Technology

Students explore how science and technology interact and impact both society and the environment. Students identify environmental issues such as water and air quality, hazardous waste, renewable and nonrenewable resources.

Idaho Extended Standards Statements
Grade 9-10
Biology

Extended Standard 1: Nature of Science

Students follow the basic tenets of scientific investigation by making accurate observations, applying proper scientific instruments and measurement tools, and communicating results. Students record accurate information by utilizing the tools of a simple investigation. Students participate in creating lab reports using graphs, charts, or diagrams to communicate results.

Extended Standard 2: Concepts of Physical Science

No goals or objectives in Earth Science.

Extended Standard 3: Concepts of Biology

Students list cell parts and their importance in relationship to the structure of an organism. Students identify functions of cell structures. Identify traits passed from one generation to another. Students differentiate between plant and animals cells and identify characteristic of each. Students communicate how traits are passed on to generations and how traits change in order to adapt to their environment.

Extended Standard 4: Earth and Space Systems

No goals or objectives

Extended Standard 5: Personal and Social Perspectives; Technology

Extended Standard 5: Students explore how science and technology interact and impact both society and the environment. Students identify environmental issues such as water and air quality, hazardous waste, renewable and nonrenewable resources.