

**SECOND GRADE****SCIENCE**

**Goal 11: Understand and apply the methods of scientific inquiry and technological design to investigate questions, solve problems and analyze claims.**

<b>Learning Standard A</b>	<b>Learning Standard B</b>	<b>Learning Standard C</b>	<b>Learning Standard D</b>
Explain the principles and practices of scientific research.	Apply the steps and methods of scientific inquiry to conduct experiments and investigate research questions.	Apply the principles and methods of technological design to solve problems.	Assess the credibility of scientific claims.
These concepts/skills will be taught and developed: <ul style="list-style-type: none"><li>• Recording and reporting of observations</li><li>• Utilizing basic safety rules and procedures for science activities</li><li>• Using senses to get information</li></ul>	These concepts/skills will be taught and developed: <ul style="list-style-type: none"><li>• Developing questions on scientific topics</li><li>• Collecting data for investigation using measuring instruments</li><li>• Recording and arranging data into logical patterns and describing the patterns</li><li>• Describing an observed event</li><li>• Comparing individual and group observations and results</li></ul>	These concepts/skills will be taught and developed: <ul style="list-style-type: none"><li>• Describe a given design problem and discuss steps necessary to solve the problem</li><li>• Propose a design to solve a problem based on given criteria</li><li>• Test the design using given instruments, techniques, and measurement methods</li><li>• Assess the effectiveness of test results and solutions, using given criteria</li><li>• Report the design, the test process, and the results in oral or written form</li></ul>	This concept/skill will be taught and developed: <ul style="list-style-type: none"><li>• Why similar results are expected when procedures are done the same way</li></ul>

**Goal 12: Understand the facts and unifying concepts of the life, physical and earth/space sciences.**

<b>Learning Standard A</b>	<b>Learning Standard B</b>	<b>Learning Standard C</b>	<b>Learning Standard D</b>
Apply concepts of systems within the sciences.	Apply concepts of form and function within the sciences.	Apply concepts of change and constancy within the sciences.	Apply concepts of models and explanations within the sciences.
<p>These concepts/skills will be taught and developed:</p> <ul style="list-style-type: none"> <li>Life Sciences: Describing and comparing characteristics of living things</li> <li>Earth Sciences: Describing components and characteristics of the earth's atmosphere</li> </ul>	<p>These concepts/skills will be taught and developed:</p> <ul style="list-style-type: none"> <li>Physical Science: Identifying and comparing basic physical properties of matter</li> <li>Life Science: Describing objects, components parts, and their functions</li> <li>Earth Science: Identifying and describing diverse features of the earth's atmosphere</li> </ul>	<p>These concepts/skills will be taught and developed:</p> <ul style="list-style-type: none"> <li>Life Science: Categorizing living organisms in relation to each other using a variety of observable features</li> <li>Earth Science: Identifying repeated patterns of weather</li> <li>Physical Science: Describing and demonstration examples of motion in the world</li> </ul>	<p>These concepts/skills will be taught and developed:</p> <ul style="list-style-type: none"> <li>Life Science: Comparing offspring to parents and one another</li> <li>Physical Science: Identifying and comparing observable forces in nature</li> </ul>

**Goal 13: Understand connections and relationships among science, technology and society.**

<b>Learning Standard A</b>	<b>Learning Standard B</b>	<b>Learning Standard C</b>
Explain the historical development and importance of science and technology.	Explain conceptual relationships between science and technology.	Describe and analyze relationships among science, technology and society in practical situations.
<p>This concept/skill will be taught and developed:</p> <ul style="list-style-type: none"> <li>Identifying and describing ways that science and technology affect people's everyday lives</li> </ul>	<p>These concepts/skills will be taught and developed:</p> <ul style="list-style-type: none"> <li>Identifying and using common scientific instruments and technology</li> <li>Comparing the accuracy of measurement made with and without instruments</li> </ul>	<p>These concepts/skills will be taught and developed:</p> <ul style="list-style-type: none"> <li>Identifying and comparing ways that living things depend on each other</li> <li>Identifying renewable and nonrenewable natural resources</li> <li>Demonstrating ways to reduce, reuse and recycle materials</li> <li>Identifying and describing ways that science and technology have been able to meet the needs of people</li> </ul>

**Goal 23: Understand human body systems and factors that influence growth and development.**

Learning Standard A	Learning Standard B
Describe and explain the structure and functions of the human body systems and how they interrelate.	Explain the effects of health-related actions on the body systems
This concept/skill will be taught and developed: <ul style="list-style-type: none"> <li>Identify selected body systems, their basic parts and functions (circulatory, respiratory, digestive)</li> </ul>	These concepts/skills will be taught and developed: <ul style="list-style-type: none"> <li>Identify healthy actions that influence the function of body systems (charting good health habits)</li> </ul>

**Goal 24: Promote and enhance health and well being through the use of effective communication and decision-making skills.**

Learning Standard A	Learning Standard B	Learning Standard C
Demonstrate procedures for positive communication, resolving differences, and preventing violence.	Apply decision-making skills related to the protection and promotion of individual health.	Demonstrate skills essential to enhancing health and avoiding dangerous situations.
This concept/skill will be taught and developed: <ul style="list-style-type: none"> <li>Differentiate between positive and negative behaviors (talking, pushing, name calling)</li> <li>Identify positive verbal and nonverbal communication skills essential to health and well-being (manners, assertiveness, self-control, decision making, peer relationships)</li> </ul>	These concepts/skills will be taught and developed: <ul style="list-style-type: none"> <li>Describe how decision making affects health (consequences of using drugs, how to seek adult assistance)</li> </ul>	These concepts/skills will be taught and developed: <ul style="list-style-type: none"> <li>Identify behaviors that are risky, threatening or harmful to themselves and others (recognizing dangerous situations)</li> </ul>