

FIRST GRADE**SCIENCE**

Goal 1: Understand and apply the methods of scientific inquiry and technological design to investigate questions, solve problems and analyze claims.

Learning Standard A	Learning Standard B	Learning Standard D
Explain the principles and practices of scientific research.	Apply the steps and methods of scientific inquiry to conduct experiments and investigate research questions.	Assess the credibility of scientific claims.
<p>As a result of their schooling, the students will maintain and extend their knowledge of:</p> <ul style="list-style-type: none"> • The use of their senses to gain knowledge through exploration and observation of their world • Accurate recording and reporting of observations • Basic safety rules and procedures for science activities 	<p>As a result of their schooling, the students, as individuals and/or as members of an investigative team, will maintain and extend their knowledge of:</p> <ul style="list-style-type: none"> • Developing questions on scientific topics • Collecting data for investigation using measuring instruments • Recording and arranging data into logical patterns and describing the patterns • Describing an observed event • Comparing individual and group observations and results 	<p>As a result of their schooling, the students will be introduced to:</p> <ul style="list-style-type: none"> • Why similar results are expected when procedures are done the same way

Goal 2: Understand the facts and unifying concepts of the life, physical and earth/space sciences.

Learning Standard A	Learning Standard B	Learning Standard C	Learning Standard D
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>As a result of their schooling, the students will be introduced to:</p> <ul style="list-style-type: none"> • Describing and comparing characteristics of living things 	<p>As a result of their schooling, the students will maintain and extend their knowledge of:</p> <ul style="list-style-type: none"> • Comparing basic physical properties of matter • Identifying and describing the characteristics related to the earth's position (Sun and Shadows) 	<p>As a result of their schooling, the students will be introduced to:</p> <ul style="list-style-type: none"> • Categorizing living organisms in relation to each other using a variety of observable features • Identifying repeated patterns of weather, climate, and seasonal changes 	<p>As a result of their schooling, the students will be introduced to:</p> <ul style="list-style-type: none"> • Comparing offspring to parents and one another

Goal 3: Understand connections and relationships among science, technology and society.

Learning Standard A	Learning Standard B	Learning Standard C
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.
As a result of their schooling, the students will be introduced to: <ul data-bbox="176 412 772 535" style="list-style-type: none">• Describing the lives and contributions of famous scientists and inventors• Identifying and describing ways that science and technology affect people's everyday lives	As a result of their schooling, the students will be introduced to: <ul data-bbox="781 412 1331 535" style="list-style-type: none">• Identifying and using common scientific instruments and technology• Comparing the accuracy of measurement made with and without instruments	As a result of their schooling, the students will be introduced to: <ul data-bbox="1339 412 1915 686" style="list-style-type: none">• Identifying and comparing ways that living things depend on each other• Identifying renewable and nonrenewable natural resources• Demonstrating ways to reduce, reuse and recycle materials• Identifying and describing ways that science and technology have been able to meet the needs of people