

It All Begins with Soil

Grades 3-5

Standards at a Glance	
Next Generation Sunshine State Standards for Science	SC.4.N.1.1, SC.4.N.1.2, SC.4.N.1.3, SC.4.N.1.5, SC.4.N.1.6, SC.4.N.1.7, SC.5.N.1.1, SC.3.P.8.2, SC.3.P.8.3, SC.4.P.8.1, SC.5.P.8.3
Computer Science – Florida Standards for Science	SC.35.CS-CP.1.4, SC.35.CS-CS.2.1, SC.35.CS-CS.2.4
English Language Arts –Florida’s B.E.S.T. Standards	ELA.3.C.1.3, ELA.3.C.5.1, ELA.3.C.2.1, ELA.4.C.2.1, ELA.4.C.1.3 ELA.4.C.5.1, ELA.5.C.5.1, ELA.5.C.1.3, ELA.5.C.2.1
Mathematics – Florida’s B.E.S.T. Standards	MA.3.M.1.1, MA.3.M.1.2, MA.4.M.1.1, MA.5.M.1.1, MA.3.DP.1.1, MA.4.DP.1.1, MA.5.DP.1.1
Next Generation Sunshine State Standards – Social Studies	N/A

Standards Highlighted	
Next Generation Sunshine State Standards for Science	
Nature of Science	
SC.4.N.1.1	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method (“the scientific method”) but that science does involve the use of observations and empirical evidence.
SC.4.N.1.5	Compare the methods and results of investigations done by other classmates.
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.
SC.4.N.1.7	Recognize and explain that scientists base their explanations on evidence.

SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.
Physical Science	
SC.3.P.8.2	Measure and compare the mass and volume of solids and liquids.
SC.3.P.8.3	Compare materials and objects according to properties such as size, shape, color, texture, and hardness.
SC.4.P.8.1	Measure and compare objects and materials based on their physical properties including mass, shape, volume, color, hardness, texture, odor, taste, and attraction to magnets.
SC.5.P.8.3	Demonstrate and explain that mixtures of solids can be separated based on observable properties of their parts such as particle size, shape, color, and magnetic attraction.
Computer Science	
Computer Practices and Programing	
SC.35.CS-CP.1.4	Collect, organize, graph, and analyze data to answer a question using a database or spreadsheet.
Communication Systems and Computing	
SC.35.CS-CS.2.1	Solve age-appropriate problems using information organized using digital graphic organizers (e.g., concept maps and Venn-diagrams).
SC.35.CS-CS.2.4	Solve real-world problems in science and engineering using computational thinking skills.
English Language Arts – Florida’s B.E.S.T. Standards	
Communication	
ELA.3.C.1.3	Write opinions about a topic or text, include reasons supported by details from one or more sources, use transitions, and provide a conclusion.
ELA.3.C.5.1	Use two or more multimedia elements to enhance oral or written tasks.
ELA.3.C.2.1, ELA.4.C.2.1	Present information orally, in a logical sequence, using nonverbal cues, appropriate volume, and clear pronunciation.
ELA.4.C.1.3	Write to make a claim supporting a perspective with logical reasons, using evidence from multiple sources, elaboration, and an organizational structure with transitions.
ELA.4.C.5.1 ELA.5.C.5.1	Arrange multimedia elements to create emphasis in oral or written tasks.
ELA.5.C.1.3	Write to make a claim supporting a perspective with logical reasons, relevant evidence from sources, elaboration, and an organizational structure with varied transitions.
ELA.5.C.2.1	Present information orally, in a logical sequence, using nonverbal cues, appropriate volume, clear pronunciation, and appropriate pacing.
Mathematics – Florida’s B.E.S.T. Standards	

Measurement	
MA.3.M.1.1	Select and use appropriate tools to measure the length of an object, the volume of liquid within a beaker and temperature.
MA.3.M.1.2	Solve real-world problems involving any of the four operations with whole-number lengths, masses, weights, temperatures or liquid volumes.
MA.4.M.1.1	Select and use appropriate tools to measure attributes of objects.
MA.5.M.1.1	Solve multi-step real-world problems that involve converting measurement units to equivalent measurements within a single system of measurement.
Data Analysis and Probability	
MA.3.DP.1.1	Collect and represent numerical and categorical data with whole-number values using tables, scaled pictographs, scaled bar graphs or line plots. Use appropriate titles, labels and units.
MA.4.DP.1.1	Collect and represent numerical data, including fractional values, using tables, stem-and-leaf plots or line plots.
MA.5.DP.1.1	Collect and represent numerical data, including fractional values and decimal values, using tables, line graphs or line plots.