

Benchmark Results

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Benchmark#	Description	Remarks/Example	Idea/Standard	Subject	Grade	Body Of Knowledge/ Strand	Cognitive Complexity Rating	Date Adopted/ Revised	Direct Link
SC.3.E.5.1	Explain that stars can be different some are smaller, some are larger, and some appear brighter than others all except the Sun are so far away that they look like points of light.		Earth in Space and Time	Science	3	Earth and Space Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1639">http://www.cpalms.org/Public/PreviewStandard/Preview/1639</a>
SC.3.E.5.2	Identify the Sun as a star that emits energy some of it in the form of light.		Earth in Space and Time	Science	3	Earth and Space Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1640">http://www.cpalms.org/Public/PreviewStandard/Preview/1640</a>
SC.3.E.5.3	Recognize that the Sun appears large and bright because it is the closest star to Earth.		Earth in Space and Time	Science	3	Earth and Space Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1641">http://www.cpalms.org/Public/PreviewStandard/Preview/1641</a>
SC.3.E.5.4	Explore the Law of Gravity by demonstrating that gravity is a force that can be overcome.		Earth in Space and Time	Science	3	Earth and Space Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1642">http://www.cpalms.org/Public/PreviewStandard/Preview/1642</a>
SC.3.E.5.5	Investigate that the number of stars that can be seen through telescopes is dramatically greater than those seen by the unaided eye.		Earth in Space and Time	Science	3	Earth and Space Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1643">http://www.cpalms.org/Public/PreviewStandard/Preview/1643</a>
SC.3.E.6.1	Demonstrate that radiant energy from the Sun can heat objects and when the Sun is not present, heat may be lost.		Earth Structures	Science	3	Earth and Space Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1644">http://www.cpalms.org/Public/PreviewStandard/Preview/1644</a>
SC.3.L.14.1	Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.	Annually assessed on Grade 5 Science FCAT 2.0. Also assesses SC.3.L.14.2 and SC.4.L.16.1. Integrate for compare/contrast HE.3.C.1.5. Recognize that body parts and organs work together to form human body systems. n>	Organization and Development of Living Organisms	Science	3	Life Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1657">http://www.cpalms.org/Public/PreviewStandard/Preview/1657</a>

SC.3.L.14.2	Investigate and describe how plants respond to stimuli (heat, light, gravity), such as the way plant stems grow toward light and their roots grow downward in response to gravity.		Organization and Development of Living Organisms	Science	3	Life Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1658">http://www.cpalms.org/Public/PreviewStandard/Preview/1658</a>
SC.3.L.15.1	Classify animals into major groups (mammals, birds, reptiles, amphibians, fish, arthropods, vertebrates and invertebrates, those having live births and those which lay eggs) according to their physical characteristics and behaviors.		Diversity and Evolution of Living Organisms	Science	3	Life Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1659">http://www.cpalms.org/Public/PreviewStandard/Preview/1659</a>
SC.3.L.15.2	Classify flowering and nonflowering plants into major groups such as those that produce seeds, or those like ferns and mosses that produce spores, according to their physical characteristics.		Diversity and Evolution of Living Organisms	Science	3	Life Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1660">http://www.cpalms.org/Public/PreviewStandard/Preview/1660</a>
SC.3.L.17.1	Describe how animals and plants respond to changing seasons.		Interdependence	Science	3	Life Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1650">http://www.cpalms.org/Public/PreviewStandard/Preview/1650</a>
SC.3.L.17.2	Recognize that plants use energy from the Sun, air, and water to make their own food.		Interdependence	Science	3	Life Science	Level 1: Recall	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1651">http://www.cpalms.org/Public/PreviewStandard/Preview/1651</a>
SC.3.N.1.1	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	<p>* Florida Standards Connections: LAFS.3.SL.1.1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.</p> <p>** Florida Standards Connections: MAFS.K12.MP.1: Make sense of problems and persevere in solving them; and, MAFS.K12.MP.3: Construct viable arguments and critique the reasoning of others.</p>	The Practice of Science	Science	3	Nature of Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1626">http://www.cpalms.org/Public/PreviewStandard/Preview/1626</a>

SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	* Florida Standards Connections: LAFS.3.SL.1.1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.  ** Florida Standards Connections: MAFS.K12.MP.5: Use appropriate tools strategically; and, MAFS.K12.MP.8: Look for and express regularity in repeated reasoning.	The Practice of Science	Science	3	Nature of Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1627">http://www.cpalms.org/Public/PreviewStandard/Preview/1627</a>
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	** Florida Standards Connections: MAFS.K12.MP.5: Use appropriate tools strategically; and, MAFS.K12.MP.6: Attend to precision.	The Practice of Science	Science	3	Nature of Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1628">http://www.cpalms.org/Public/PreviewStandard/Preview/1628</a>
SC.3.N.1.4	Recognize the importance of communication among scientists.	* Florida Standards Connections: LAFS.3.RI.1.3. Describe the relationship between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect.	The Practice of Science	Science	3	Nature of Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1629">http://www.cpalms.org/Public/PreviewStandard/Preview/1629</a>
SC.3.N.1.5	Recognize that scientists question, discuss, and check each others' evidence and explanations.	** Florida Standards Connections: MAFS.K12.MP.3: Construct viable arguments and critique the reasoning of others.	The Practice of Science	Science	3	Nature of Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1633">http://www.cpalms.org/Public/PreviewStandard/Preview/1633</a>
SC.3.N.1.6	Infer based on observation.	** Florida Standards Connections: MAFS.K12.MP.6: Attend to precision.	The Practice of Science	Science	3	Nature of Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1634">http://www.cpalms.org/Public/PreviewStandard/Preview/1634</a>
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	** Florida Standards Connections: MAFS.K12.MP.5: Use appropriate tools strategically.	The Practice of Science	Science	3	Nature of Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1635">http://www.cpalms.org/Public/PreviewStandard/Preview/1635</a>

SC.3.N.3.1	Recognize that words in science can have different or more specific meanings than their use in everyday language for example, energy, cell, heat/cold, and evidence.	* Florida Standards Connections: LAFS.3.RI.2.4. Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.	The Role of Theories, Laws, Hypotheses, and Models	Science	3	Nature of Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1636">http://www.cpalms.org/Public/PreviewStandard/Preview/1636</a>
SC.3.N.3.2	Recognize that scientists use models to help understand and explain how things work.	** Florida Standards Connections: MAFS.K12.MP.4: Model with mathematics.	The Role of Theories, Laws, Hypotheses, and Models	Science	3	Nature of Science	Level 1: Recall	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1637">http://www.cpalms.org/Public/PreviewStandard/Preview/1637</a>
SC.3.N.3.3	Recognize that all models are approximations of natural phenomena as such, they do not perfectly account for all observations.	** Florida Standards Connections: MAFS.K12.MP.4: Model with mathematics.	The Role of Theories, Laws, Hypotheses, and Models	Science	3	Nature of Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1638">http://www.cpalms.org/Public/PreviewStandard/Preview/1638</a>
SC.3.P.10.1	Identify some basic forms of energy such as light, heat, sound, electrical, and mechanical.		Forms of Energy	Science	3	Physical Science	Level 1: Recall	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1653">http://www.cpalms.org/Public/PreviewStandard/Preview/1653</a>
SC.3.P.10.2	Recognize that energy has the ability to cause motion or create change.		Forms of Energy	Science	3	Physical Science	Level 1: Recall	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1648">http://www.cpalms.org/Public/PreviewStandard/Preview/1648</a>
SC.3.P.10.3	Demonstrate that light travels in a straight line until it strikes an object or travels from one medium to another.		Forms of Energy	Science	3	Physical Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1654">http://www.cpalms.org/Public/PreviewStandard/Preview/1654</a>
SC.3.P.10.4	Demonstrate that light can be reflected, refracted, and absorbed.		Forms of Energy	Science	3	Physical Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1649">http://www.cpalms.org/Public/PreviewStandard/Preview/1649</a>
SC.3.P.11.1	Investigate, observe, and explain that things that give off light often also give off heat.		Energy Transfer and Transformations	Science	3	Physical Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1655">http://www.cpalms.org/Public/PreviewStandard/Preview/1655</a>
SC.3.P.11.2	Investigate, observe, and explain that heat is produced when one object rubs against another, such as rubbing one's hands together.		Energy Transfer and Transformations	Science	3	Physical Science	Level 3: Strategic Thinking & Complex Reasoning	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1656">http://www.cpalms.org/Public/PreviewStandard/Preview/1656</a>
SC.3.P.8.1	Measure and compare temperatures of various	** Florida Standards Connections: MAFS.K12.MP.5: Use appropriate	Properties of Matter	Science	3	Physical Science	Level 2: Basic Application of	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1645">http://www.cpalms.org/Public/PreviewStandard/Preview/1645</a>

	samples of solids and liquids.	tools strategically; and, MAFS.K12.MP.6: Attend to precision.					Skills & Concepts		
SC.3.P.8.2	Measure and compare the mass and volume of solids and liquids.	Introduce the term mass as compared to the term weight.  ** Florida Standards Connections: MAFS.3.MD.1.2; MAFS.K12.MP.5: Use appropriate tools strategically; and, MAFS.K12.MP.6: Attend to precision.	Properties of Matter	Science	3	Physical Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1646">http://www.cpalms.org/Public/PreviewStandard/Preview/1646</a>
SC.3.P.8.3	Compare materials and objects according to properties such as size, shape, color, texture, and hardness.	** Florida Standards Connections: MAFS.3.MD.2.4; MAFS.K12.MP.5: Use appropriate tools strategically; and, MAFS.K12.MP.6: Attend to precision.	Properties of Matter	Science	3	Physical Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1647">http://www.cpalms.org/Public/PreviewStandard/Preview/1647</a>
SC.3.P.9.1	Describe the changes water undergoes when it changes state through heating and cooling by using familiar scientific terms such as melting, freezing, boiling, evaporation, and condensation.		Changes in Matter	Science	3	Physical Science	Level 2: Basic Application of Skills & Concepts	02/08	<a href="http://www.cpalms.org/Public/PreviewStandard/Preview/1652">http://www.cpalms.org/Public/PreviewStandard/Preview/1652</a>