2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

BID ID:	**3246**
SUBMISSION TITLE:	**National Geographic Science Florida Edition, Grade 2**
GRADE LEVEL:	**2**
COURSE TITLE:	**Science, Grade 2**
COURSE CODE:	**5020030**
ISBN:	**9781337856973**
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BENCHMARK CODE	BENCHMARK	LESSONS WHERE STANDARD/BENCHMARK IS DIRECTLY ADDRESSED IN MAJOR TOOL (MOST IN-DEPTH COVERAGE LISTED FIRST) (Include the student edition and teacher edition with the page numbers of lesson, a link to lesson, or other identifier for easy lookup by reviewers.)
SC.2.E.6.1:	Recognize that Earth is made up of rocks. Rocks come in many sizes and shapes.	**Rocks and Soil:** *Big Ideas Book* 2–3, 4–5, 6–7, 8–9, 10–11, 12–13, 14–15, 16–17, 28–29
SC.2.E.6.2:	Describe how small pieces of rock and dead plant and animal parts can be the basis of soil and explain the process by which soil is formed.	**Rocks and Soil:** *Big Ideas Book* 18–19, 20–21, 28–29 *Science Inquiry Book* 14–17, 22–25
SC.2.E.6.3:	Classify soil types based on color, texture (size of particles), the ability to retain water, and the ability to support the growth of plants.	**Rocks and Soil:** *Big Ideas Book* 18–19, 22–23, 24–25, 26–27, 28–29 *Science Inquiry Book* 26–29
SC.2.E.7.1:	Compare and describe changing patterns in nature that repeat themselves, such as weather conditions including temperature and precipitation, day to day and season to season.	**Weather:** *Big Ideas Book* 4–5, 8–9, 12–13, 14–15, 16–17, 18–19, 20–21, 22–23, 24–25, 26–27, 30–31, 32–33 *Science Inquiry Book* 5, 14–17, 26–29 *Teacher's Edition* T1f–T1h, T4–T5, T8–T9, T12–T13, T14–T15, T15i, T15k–T15l, T15m–T15n, T16–T17, T18–T19, T20–T21,
SC.2.E.7.2:	Investigate by observing and measuring, that the Sun's energy directly and indirectly warms the water, land, and air.	**Weather:** *Big Ideas Book* 6–7, 8–9, 10–11, 12–13, 40 *Science Inquiry Book* 4, 6–9, 26–29
SC.2.E.7.3:	Investigate, observe and describe how water left in an open container disappears (evaporates), but water in a closed container does not disappear (evaporate).	**Weather:** *Science Inquiry Book* 10–13 *Teacher's Edition* T15b–T15d.
SC.2.E.7.4:	Investigate that air is all around us and that moving air is wind.	**Weather:** *Big Ideas Book* 4–5, 34–35
SC.2.E.7.5:	State the importance of preparing for severe weather, lightning, and other weather related events.	**Weather:** *Big Ideas Book* 36–37, 38–39 *Teacher's Edition* T27p, T36–T37, T38–T39.
SC.2.L.14.1:	Distinguish human body parts (brain, heart, lungs, stomach, muscles, and skeleton) and their basic functions.	**Life Cycles:** *Big Ideas Book* 14–15, 18–19 *Teacher's Edition* T18–T19.

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SC.2.L.16.1:	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	**Life Cycles:** *Big Ideas Book* 4–5, 6–7, 8–9, 10–11, 12–13, 14–15, 16–17, 20–21, 22–23, 24–25, 26–27, 28 *Science Inquiry Book* 4, 5, 6–9, 10–13, 14–17
SC.2.L.17.1:	Compare and contrast the basic needs that all living things, including humans, have for survival.	**Habitats:** *Big Ideas Book* 16–17, 18–19, 24–25, 26–27, 28–29, 30–31, 32–33, 34–35, 36
SC.2.L.17.2:	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	**Habitats:** *Big Ideas Book* 5, 6–7, 8–9, 10–11, 12–13, 14–15, 16–17, 20–21, 22–23, 24–25, 36 *Science Inquiry Book* 4–5, 18–21
SC.2.N.1.1:	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	**Forces and Motion:** *Science Inquiry Book* 30–31 *Teacher's Edition* T29a–T29b, T29c–T29f **Habitats:**
SC.2.N.1.2:	Compare the observations made by different groups using the same tools.	**Forces and Motion:** *Science Inquiry Book* 6–13, 25, 29
SC.2.N.1.3:	Ask "how do you know?" in appropriate situations and attempt reasonable answers when asked the same question by others.	**Forces and Motion:** *Science Inquiry Book* 14–21 *Teacher's Edition* T15e–T15h, T15k–T15n, T29e–T29f
SC.2.N.1.4:	Explain how particular scientific investigations should yield similar conclusions when repeated.	**Habitats:** *Science Inquiry Book* 18–21
SC.2.N.1.5:	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	**Life Cycles:** *Science Inquiry Book* 14–17 *Teacher's Edition* T13g–T13j
SC.2.N.1.6:	Explain how scientists alone or in groups are always investigating new ways to solve problems.	**Forces and Motion:** *Science Inquiry Book* 32–33
SC.2.P.8.1:	Observe and measure objects in terms of their properties, including size, shape, color, temperature, weight, texture, sinking or floating in water, and attraction and repulsion of magnets.	**Solids, Liquids, and Gases:** *Big Ideas Book* 14–19, 21–27, 34–35, 36 *Science Inquiry Book* 5, 10–13, 14–17, 18–21, 22–25 *Teacher's Edition* T13a–T13d, T13g–T13j, T13k–T13n, T13o–T13p, T13q–T13r, T14–T15, T16–T17, T18–T19, T20–T21,
SC.2.P.8.2:	Identify objects and materials as solid, liquid, or gas.	**Solids, Liquids, and Gases:**
SC.2.P.8.3:	Recognize that solids have a definite shape and that liquids and gases take the shape of their container.	**Solids, Liquids, and Gases:** *Big Ideas Book* 8, 10–13
SC.2.P.8.4:	Observe and describe water in its solid, liquid, and gaseous states.	**Solids, Liquids, and Gases:** *Big Ideas Book* 29–31, 36
SC.2.P.8.5:	Measure and compare temperatures taken every day at the same time.	**Solids, Liquids, and Gases:** *Big Ideas Book* 27
SC.2.P.8.6:	Measure and compare the volume of liquids using containers of various shapes and sizes.	**Solids, Liquids, and Gases:** *Big Ideas Book* 26
SC.2.P.9.1:	Investigate that materials can be altered to change some of their properties, but not all materials respond the same way to any one alteration.	**Solids, Liquids, and Gases:** *Big Ideas Book* 32–35, 36 *Science Inquiry Book* 27–29

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SC.2.P.10.1:	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.	**Weather:** *Big Ideas Book* 10–11 *Teacher's Edition* T10–T11.
SC.2.P.13.1:	Investigate the effect of applying various pushes and pulls on different objects.	**Forces and Motion:** *Big Ideas Book* 6–15, 28
SC.2.P.13.2:	Demonstrate that magnets can be used to make some things move without touching them.	**Forces and Motion:** *Big Ideas Book* 22–28
SC.2.P.13.3:	Recognize that objects are pulled toward the ground unless something holds them up.	**Forces and Motion:** *Big Ideas Book* 16–21, 28
SC.2.P.13.4:	Demonstrate that the greater the force (push or pull) applied to an object, the greater the change in motion of the object.	**Forces and Motion:** *Big Ideas Book* 12–15 *Science Inquiry Book* 4, 8–9
LAFS.2.RI.1.3:	Describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text.	**Rocks and Soil:** Teacher's Edition T11a-T11d, T17a-T17d, T17k-T17n **Forces and Motion:**
LAFS.2.RI.2.4:	Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area.	**Rocks and Soil:** Big Ideas Book p 8, 13, 19, 20
LAFS.2.RI.4.10:	By the end of year, read and comprehend informational texts, including history/social studies, science, and technical texts, in the grades 2–3 text complexity band proficiently, with scaffolding as needed at the high end of the range.	**Rocks and Soil:** Teacher's Edition T6-T11, T12-T17, T18-T29, T42-T52, T56-T66, T70-T80 Big Ideas Book p4-28 **Forces and Motion:** Big Ideas Book p4-28
LAFS.2.SL.1.1:	Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.	**Rocks and Soil:** Teacher's Edition T1h, T11, T11e, T17g, T81 **Forces and Motion:**
LAFS.2.SL.1.1a:	a. Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).	**Rocks and Soil:** Teacher's Edition T1h, T11, T11e, T17g, T81 **Forces and Motion:** Teacher's Edition T9, T21, T21i, T81
LAFS.2.SL.1.1b:	b. Build on others' talk in conversations by linking their comments to the remarks of others.	**Rocks and Soil:** Teacher's Edition T1h, T11, T11e, T17g, T81
LAFS.2.SL.1.1c:	c. Ask for clarification and further explanation as needed about the topics and texts under discussion.	**Rocks and Soil:** Teacher's Edition T1h, T11, T11e, T17g, T81
LAFS.2.W.3.7:	Participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations).	**Rocks and Soil:** Teacher's Edition T11d, T11j, T17h, T17n, T49, T64, T81 **Forces and Motion:**
LAFS.2.W.3.8:	Recall information from experiences or gather information from provided sources to answer a question.	Each lesson gives opportunity to use prior knowledge. For Example: **Rocks and Soil:** Teacher's Edition T6, T12, T18, T34
HE.2.B.5.2:	Name healthy options to health-related issues or problems.	This objective is not directly addressed at this grade level of National Geographic Science.

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HE.2.C.1.5:	Recognize the locations and functions of major human organs.	**Life Cycles:** Teacher's Edition T18-T19
MAFS.2.MD.4.9:	Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.	**Rocks and Soil:** Teacher's Edition T1g **Forces and Motion:** Teacher's Edition T15a-T15d **Solids, Liquids and Gases:** Teacher's Edition T13g-T13j, T13k-T13n, T57, T71
MAFS.2.MD.4.10:	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.	**Habitats:** Teacher's Edition T23c-T23f
ELD.K12.ELL.SC.1:	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.	**Rocks and Soil:** Teacher's Edition T1g, T1i, T7, T11k, T13, T15, T21, T23, T25, T45, T58, T72 **Forces and Motion:**
ELD.K12.ELL.SI.1:	English language learners communicate for social and instructional purposes within the school setting.	**Rocks and Soil:** Teacher's Edition T1g, T1i, T7, T11k, T13, T15, T21, T23, T25, T45, T58, T72