

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

BID ID: 3247
SUBMISSION TITLE: National Geographic Science Florida Edition, Grade 3
GRADE LEVEL: 3
COURSE TITLE: Science, Grade 3
COURSE CODE: 5020040
ISBN: 9781337856997
PUBLISHER: Cengage Learning
PUBLISHER ID: 59-2124491

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.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.	<i>Big Ideas Book:</i> 154–172, 174–183 <i>Science Inquiry and Writing Book:</i> 55, 68–71 <i>Teacher's Edition:</i> T127, T129, T153e–T153h.
SC.3.E.5.2:	Identify the Sun as a star that emits energy; some of it in the form of light.	<i>Big Ideas Book:</i> 122–124, 126–135, 140, 142–149, 152 <i>Science Inquiry and Writing Book:</i> 54 <i>Teacher's Edition:</i> T124–T131, T133–T134, T142, T146–T147.
SC.3.E.5.3:	Recognize that the Sun appears large and bright because it is so close to Earth.	<i>Big Ideas Book:</i> 124, 126 140, 144 <i>Teacher's Edition:</i> T124–T127, T129.
SC.3.E.5.4:	Explore the Law of Gravity by demonstrating that gravity is a force that pulls objects toward each other.	<i>Big Ideas Book:</i> 136–139 <i>Science Inquiry and Writing Book:</i> 64–67 <i>Teacher's Edition:</i> T138, T139e–T139h.
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.	<i>Big Ideas Book:</i> 166–169, 172, 174–177, 180–183 <i>Science Inquiry and Writing Book:</i> 72–75 <i>Teacher's Edition:</i> T171a–T171d.
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.	<i>Big Ideas Book:</i> 122, 124–125, 128–133, 143 <i>Science Inquiry and Writing Book:</i> 54, 56–59, 86–89 <i>Teacher's Edition:</i> T121e–T121h, T129–T131, T135, T184r–T184u.
SC.3.L.14.1:	Describe structures in plants and their roles in food production.	<i>Big Ideas Book:</i> 9–17, 19–21, 23–32, 37–39, 42 <i>Teacher's Edition:</i> T10–T19.
SC.3.N.1.5:	Recognize that scientists question, discuss, and check each other's work.	<i>Big Ideas Book:</i> 175 <i>Teacher's Edition:</i> T126, T175, T184l–T184m, T324r–T324u.
SC.3.N.1.6:	Infer based on observation.	<i>Science Inquiry and Writing Book:</i> 10–13, 24–27, 32–35, 50–53, 64–67, 91, 126–129 <i>Teacher's Edition:</i> T45i–T45l, T85e–T85h, T116r–T116u, T139e–T139h, T221e–T221h, T235, T237, T293e–T293h, T311a–T311d.

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

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.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.	<i>Science Inquiry and Writing Book:</i> 140–143 <i>Teacher's Edition:</i> T116l–T116m, T139e–T139h, T221e–T221h, T234l–T234m, T311a–T311d, T324r–T324u.
SC.3.N.3.1:	Recognize that words in science can have different or more	<i>Teacher's Edition:</i> T121e–T121h, T207a–T207d.
SC.3.N.3.2:	Recognize that scientists use models to help understand and explain how things work.	<i>Teacher's Edition:</i> T45i–T45l, T143, T153e–T153h.
SC.3.N.3.3:	Recognize that all models are approximations of natural phenomena; as such, they do not perfectly account for all observations.	<i>Teacher's Edition:</i> T45i–T45l, T153e–T153h.
SC.3.P.8.1:	Measure and compare temperatures of various samples of	<i>Big Ideas Book:</i> 223, 226–227, 231–232, 236–237, 244–245, 248, 250 <i>Science Inquiry and Writing Book:</i> 110–113 <i>Teacher's Edition:</i> T236, T239a–T239h.
SC.3.P.8.2:	Measure and compare the mass and volume of solids and li	<i>Big Ideas Book:</i> 192–193, 200–208, 218–219 <i>Science Inquiry and Writing Book:</i> 90, 98–101 <i>Teacher's Edition:</i> T200–T201, T203–T205, T207a–T207d.
SC.3.P.8.3:	Compare materials and objects according to properties such as size, shape, color, texture, and hardness.	<i>Big Ideas Book:</i> 190, 193–199, 206–208, 213–217 <i>Science Inquiry and Writing Book:</i> 94–97 <i>Teacher's Edition:</i> T189e–T189h, T196–T199.
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.	<i>Big Ideas Book:</i> 225–226, 228–235, 239–240, 242–245, 247–251 <i>Science Inquiry and Writing Book:</i> 91, 102–105 <i>Teacher's Edition:</i> T221e–T221h, T222–T226, T230–T235, T324n–T324q.
SC.3.P.10.1:	Identify some basic forms of energy such as light, heat, sou	<i>Big Ideas Book:</i> 254–280, 284–291, 294–296, 302–303, 311–312, 314–323 <i>Science Inquiry and Writing Book:</i> 92, 114–117, 118–121 <i>Teacher's Edition:</i> T124–T125, T130–T133, T146–T154, T253e–T253h, T256–T257, T260–T263, T265, T270, T272–T273, T275–T276, T279a–T279d, T296–T299.
SC.3.P.10.2:	Recognize that energy has the ability to cause motion or create change.	<i>Big Ideas Book:</i> 254–256, 258–261, 263, 272, 278–280, 282–288, 291 <i>Teacher's Edition:</i> T260–T263.
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.	<i>Big Ideas Book:</i> 296–297, 300–302, 304–305, 308–309, 312, 320 <i>Teacher's Edition:</i> T296–T297, T302–T303.
SC.3.P.10.4:	Demonstrate that light can be reflected, refracted, and abs	<i>Big Ideas Book:</i> 294, 296–297, 300–307, 310, 312, 318, 320–321 <i>Science Inquiry and Writing Book:</i> 93, 126–129 <i>Teacher's Edition:</i> T296–T297, T302–T305, T307, T311a–T311d.
SC.3.P.11.1:	Investigate, observe, and explain that things that give off lig	<i>Big Ideas Book:</i> 297, 299, 306–307, 312, 321 <i>Science Inquiry and Writing Book:</i> 122–125 <i>Teacher's Edition:</i> T122–T123, T129–T133, T135, T293e–T293h, T299, T307.

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

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.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.	<i>Big Ideas Book: 276–277</i> <i>Teacher's Edition: T276–T277.</i>
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.	Teacher's Edition: T5e-T5h, T31a-T31f, T69a-T69d, T85e-T85h, T103a-T103d, T108-T115, T121e-T121h, T189e-T189h, T221e-T221h, T239e-T239h, T253e-T253h, T293e-T293h
LAFS.3.RI.2.4:	Determine the meaning of general academic and domain-specific	Big Ideas Book: p.10, 20, 21, 26, 30, 50-53, 90, 91, 97, 98, 126, 128, 129, 131, 133, 136, 158, 160, 166, 194, 198, 200, 202,
LAFS.3.RI.4.10:	By the end of the year, read and comprehend informational texts, including history/social studies, science, and technical texts, at the high end of the grades 2–3 text complexity band independently and proficiently.	Big Ideas Book: p. 6-115, 126-151, 158-183, 194-219, 226-251, 258-291, 298-323 Teacher's Edition: T10-T31, T44a, T50-T69, T70-T73, T74-T84, T84a, T90-T103, T104-T115, T116a, T126-T139, T140-T152, T152a, T158-T171, T172-T184, T184a, T194-T207, T208-T220, T226-T239, T240-T252, T252a, T258-T279, T280-T292, T292a, T298-T311, T312-T324, T324a
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.	Teacher's Edition: T18, T20, T22, T33, T44, T59, T65, T73, T84, T105, T116, T141, T152, T170, T171b, T171c, T173, T184, T207c, T220, T221g, T238, T252, T276, T281, T292, T313, T324
	a. Come to discussions prepared, having read or studied related	Teacher's Edition: T18, T20, T22, T33, T44, T59, T65, T73, T84, T105, T116, T141, T152, T170, T171b, T171c, T173, T184,
	b. 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).	Teacher's Edition: T18, T20, T22, T33, T44, T59, T65, T73, T84, T105, T116, T141, T152, T170, T171b, T171c, T173, T184, T207c, T220, T221g, T238, T252, T276, T281, T292, T313, T324
	c. Ask questions to check understanding of information presented, stay on topic, and link their comments to the remarks of others.	Teacher's Edition: T18, T20, T22, T33, T44, T59, T65, T73, T84, T105, T116, T141, T152, T170, T171b, T171c, T173, T184, T207c, T220, T221g, T238, T252, T276, T281, T292, T313, T324
	d. Explain their own ideas and understanding in light of the	Teacher's Edition: T18, T20, T22, T33, T44, T59, T65, T73, T84, T105, T116, T141, T152, T170, T171b, T171c, T173, T184,
LAFS.3.W.3.8:	Recall information from experiences or gather information from print and digital sources; take brief notes on sources and sort evidence into provided categories.	Each lesson gives opportunity to use prior knowledge. For Example: Teacher's Edition: T2, T10, T50, T54, T57, T68, T94, T99, T100, T150, T178, T126, T136, T150-T151, T158, T165, T166, T171a, T175, T199, T207a, T210, T211, T236, T254, T263, T279a, T300, T305
HE.3.C.1.4:	Recognize common childhood health conditions.	This objective is not directly addressed at this grade level of National Geographic Science.
HE.3.C.1.5:	Recognize that body parts and organs work together to form	This objective is not directly addressed at this grade level of National Geographic Science.
MAFS.3.MD.1.2:	Measure and estimate liquid volumes and masses of objects	Teacher's Edition: T203, T207a-T207d

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

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.)
MAFS.3.MD.2.4:	Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units— whole numbers, halves, or quarters.	Teacher’s Edition: T139e-T139h
ELD.K12.ELL.SC.1:	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.	Teacher’s Edition: T3, T16, T20, T25, T26, T30, T35, T51, T53, T54, T62, T66, T69, T75, T85g, T95, T97, T107, T122, T127, T130, T143, T163, T168, T175, T178-179, T187, T190, T195, T211, T222, T227, T233, T248, T254, T259, T263, T267, T271, T283, T299, T305, T315
ELD.K12.ELL.SI.1:	English language learners communicate for social and instru	Teacher’s Edition: T3, T16, T20, T25, T26, T30, T35, T51, T53, T54, T62, T66, T69, T75, T85g, T95, T97, T107, T122, T127, T13