

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

BID ID: 3248
SUBMISSION TITLE: National Geographic Science Florida Edition, Grade 4
GRADE LEVEL: 4
COURSE TITLE: Science, Grade 4
COURSE CODE: 5020050
ISBN: 9781337857017
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.4.E.5.1:	Observe that the patterns of stars in the sky stay the same although they appear to shift across the sky nightly, and different stars can be seen in different seasons.	<i>Big Ideas Book:</i> 180–181, 184, 196 <i>Science Inquiry and Writing Book:</i> 68–71 <i>Teacher's Edition:</i> T181, T184.
SC.4.E.5.2:	Describe the changes in the observable shape of the moon over the course of about a month.	<i>Big Ideas Book:</i> 173, 190, 191 <i>Science Inquiry and Writing Book:</i> 72–75 <i>Teacher's Edition:</i> T190–T191, T195a–T195d.
SC.4.E.5.3:	Recognize that Earth revolves around the Sun in a year and rotates on its axis in a 24-hour day.	<i>Big Ideas Book:</i> 172–173, 176–177, 182–183, 196 <i>Teacher's Edition:</i> T172–T173, T176–T179, T182–T183.
SC.4.E.5.4:	Relate that the rotation of Earth (day and night) and apparent movements of the Sun, Moon, and stars are connected.	<i>Big Ideas Book:</i> 170–181, 188–189, 196, 198–200, 202 <i>Science Inquiry and Writing Book:</i> 64, 68–71, 72–75 <i>Teacher's Edition:</i> T178–T181, T184, T188, T195a–T195d.
SC.4.E.5.5:	Investigate and report the effects of space research and exploration on the economy and culture of Florida.	<i>Big Ideas Book:</i> 192–195 <i>Science Inquiry and Writing Book:</i> 76–79 <i>Teacher's Edition:</i> T192–T195, T195e–T195h.
SC.4.E.6.1:	Identify the three categories of rocks: igneous, (formed from molten rock); sedimentary (pieces of other rocks and fossilized organisms); and metamorphic (formed from heat and pressure).	<i>Big Ideas Book:</i> 213, 216–217, 226–233, 236, 238, 240–247 <i>Science Inquiry and Writing Book:</i> 65, 88–91 <i>Teacher's Edition:</i> T212–T213, T226–T233, T235a–T235d, T240–T241, T246–T247
SC.4.E.6.2:	Identify the physical properties of common earth-forming minerals, including hardness, color, luster, cleavage, and streak color, and recognize the role of minerals in the	<i>Big Ideas Book:</i> 210–225, 228–229, 232–236, 239–246 <i>Science Inquiry and Writing Book:</i> 66, 80–83, 84–87 <i>Teacher's Edition:</i> T209e–T209h, T214–T224.
SC.4.E.6.3:	Recognize that humans need resources found on Earth and that these are either renewable or nonrenewable.	<i>Big Ideas Book:</i> 250–276, 279–287 <i>Science Inquiry and Writing Book:</i> 66, 96–99 <i>Teacher's Edition:</i> T249e–T249h, T252–T255, T258–T263, T275a–T275d.

**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.4.E.6.4:	Describe the basic differences between physical weathering (breaking down of rock by wind, water, ice, temperature change, and plants) and erosion (movement of rock by gravity, wind, water, and ice).	<i>Big Ideas Book:</i> 290–314, 318–327 <i>Science Inquiry and Writing Book:</i> 67, 100–103, 104–107 <i>Teacher's Edition:</i> T290–T297, T304–T311, T313, T320–T323.
SC.4.E.6.5:	Investigate how technology and tools help to extend the ability of humans to observe very small things and very large things.	<i>Big Ideas Book:</i> 290–314 <i>Teacher's Edition:</i> T225, T229, T235.
SC.4.E.6.6:	Identify resources available in Florida (water, phosphate, oil, limestone, silicon, wind, and solar energy).	<i>Big Ideas Book:</i> 290–314 <i>Science Inquiry and Writing Book:</i> 92–95 <i>Teacher's Edition:</i> T249e–T249h, T256–T257, T262, T265, T271.
SC.4.L.16.1:	Identify processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.	<i>Big Ideas Book:</i> 8–9, 14–15, 18–19, 20–21, 24–25, 27, 29, 40–41 <i>Science Inquiry and Writing Book:</i> 10, 14–17, 22–25 <i>Teacher's Edition:</i> T5e–T5h, T6–T9, T14–T15, T18–T25, T33e–T33h.
SC.4.L.16.2:	Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.	<i>Big Ideas Book:</i> 30–33, 38–39, 60–67, 78–79 <i>Science Inquiry and Writing Book:</i> 26–29 <i>Teacher's Edition:</i> T30–T33, T38, T45e–T45h, T60–T69, T78–T79.
SC.4.L.16.3:	Recognize that animal behaviors may be shaped by heredity and learning.	<i>Big Ideas Book:</i> 62–63, 66–69 <i>Science Inquiry and Writing Book:</i> 11, 26–29 <i>Teacher's Edition:</i> T62–T63, T66–T69, T78–T79.
SC.4.L.16.4:	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.	<i>Big Ideas Book:</i> 24–29, 42–43, 50–59, 76–81 <i>Science Inquiry and Writing Book:</i> 14–17, 18–21, 30–33 <i>Teacher's Edition:</i> T14–T15, T24–T29, T33a–T33d, T42–T43, T48–T59, T69a–T69d, T72, T74–T77, T80–T83.
SC.4.L.17.1:	Compare the seasonal changes in Florida plants and animals to those in other regions of the country.	<i>Big Ideas Book:</i> 122–127 <i>Science Inquiry and Writing Book:</i> 46–49 <i>Teacher's Edition:</i> T123, T125–T127, T149a–T149d.
SC.4.L.17.2:	Explain that animals, including humans, cannot make their own food and that when animals eat plants or other animals, the energy stored in the food source is passed to them.	<i>Big Ideas Book:</i> 94, 98–99, 104, 109, 110, 114 <i>Teacher's Edition:</i> T85e–T85h, T86–T96, T98–T113.
SC.4.L.17.3:	Trace the flow of energy from the Sun as it is transferred along the food chain through the producers to the consumers.	<i>Big Ideas Book:</i> 98–99 <i>Science Inquiry and Writing Book:</i> 34–37, 38–41 <i>Teacher's Edition:</i> T98–T103, T103a–T103d, T104–T107.
SC.4.L.17.4:	Recognize ways plants and animals, including humans, can impact the environment.	<i>Big Ideas Book:</i> 18, 22–23, 41, T114–T115, 128–150, 154–164 <i>Science Inquiry and Writing Book:</i> 13 <i>Teacher's Edition:</i> T22–T23, T114–T115, T117e–T117h, T128–T164.

**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.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.	<i>Science Inquiry and Writing Book:</i> 22–25, 26–29, 30–33, 34–37, 38–41, 42–45, 46–49, 50–51, 52–59, 68–71, 76–79, 84–87, 88–91, 92–95, 96–99, 100–103, 104–107, 108–109, 110–117, 134–137, 138–141, 142–145, 146–149, 150–153, 154–157, 158–161, 162–165, 166–169, 170–173, 174–177, 178–179, 180–187 <i>Teacher's Edition:</i> T33e–T33h, T69a–T69d, T85e–T85h, T103a–T103d, T117e–T117h, T164a–T164d, T164i–T164l, T195e–T195h, T328q–T328t, T505a–T505d, T516i–T516l
SC.4.N.1.2:	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	<i>Science Inquiry and Writing Book:</i> 22–25, 30–33, 38–41, 88–91, 122, 126–129, 166–169, 174–177 <i>Teacher's Edition:</i> T69a–T69d, T103a–T103d, T333e–T333h, T423a–T423d, T449a–T449d, T505a–T505d.
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.	<i>Science Inquiry and Writing Book:</i> 60–63 <i>Teacher's Edition:</i> T5e–T5h, T33e–T33h, T45e–T45h, T69a–T69d, T103a–T103d, T164i–T164l, T209i–T209l, T235a–T235d, T333e–T333h, T405e–T405h, T437e–T437h, T461e–T461h.
SC.4.N.1.4:	Attempt reasonable answers to scientific questions and cite evidence in support.	<i>Science Inquiry and Writing Book:</i> 26–29, 30–33, 34–37, 38–41, 42–45, 46–49, 50–51, 52–59, 68–71, 72–75, 80–83, 96–99, 100–103, 104–107, 108–109, 124, 142–145, 154–157, 158–161, 162–165, 166–169, 170–173, 174–177, 178–179 <i>Teacher's Edition:</i> T69a–T69d, T85e–T85h, T103a–T103d, T117e–T117h, T149a–T149d, T164a–T164d, T229, T249e–T249h, T302–T303, T333e–T333h, T373e–T373h, T437e–T437h, T461e–T461h, T493e–T493h, T516i–T516l, T516q–T516t.
SC.4.N.1.5:	Compare the methods and results of investigations done by other classmates.	<i>Science Inquiry and Writing Book:</i> 12, 38–41, 88–91, 124, 126–129, 142–145, 150–153, 166–169, 174–177 <i>Teacher's Edition:</i> T103a–T103d, T235a–T235h, T275a–T275d, T355a–T355h, T423a–T423d, T505a–T505d.
SC.4.N.1.6:	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	<i>Science Inquiry and Writing Book:</i> 14–17, 18–21, 34–37, 52–59, 188–191 <i>Teacher's Edition:</i> T45e–T45h, T85e–T85h, T373e–T373h, T437e–T437h, T516q–T516t.
SC.4.N.1.7:	Recognize and explain that scientists base their explanations on evidence.	<i>Big Ideas Book:</i> 37, 102, 106–107, 316–317 <i>Science Inquiry and Writing Book:</i> 60–63, 188–191 <i>Teacher's Edition:</i> T37, T117e–T117h, T164i–T164l, T209i–T209l, T316–T317, T391a–T391d, T516q–T516t.
SC.4.N.1.8:	Recognize that science involves creativity in designing experiments.	<i>Big Ideas Book:</i> 107 <i>Science Inquiry and Writing Book:</i> 60–63 <i>Teacher's Edition:</i> T164i–T164l, T449a–T449d, T505a–T505d.
SC.4.N.2.1:	Explain that science focuses solely on the natural world.	<i>Teacher's Edition:</i> T33a–T33d.

**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.4.N.3.1:	Explain that models can be three dimensional, two dimensional, an explanation in your mind, or a computer	<i>Science Inquiry and Writing Book:</i> 100–103, 118–121 <i>Teacher's Edition:</i> T195a–T195d, T328q–T328t.
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, attraction to magnets.	<i>Big Ideas Book:</i> 334–353, 356, 359–360, 365, 367 <i>Science Inquiry and Writing Book:</i> 122, 126–129, 130–133, 134–137 <i>Teacher's Edition:</i> T54, T333e–T333h, T339–T348, T350–T353, T355a–T355h.
SC.4.P.8.2:	Identify properties and common uses of water in each of its states.	<i>Big Ideas Book:</i> 376–383, 392, 400–401, 403 <i>Science Inquiry and Writing Book:</i> 123, 138–141 <i>Teacher's Edition:</i> T373e–T373h.
SC.4.P.8.3:	Explore the Law of Conservation of Mass by demonstrating that the mass of a whole object is always the same as the sum of the masses of its parts.	<i>Big Ideas Book:</i> 349 <i>Science Inquiry and Writing Book:</i> 132–135 <i>Teacher's Edition:</i> T349, T355e–T355h.
SC.4.P.8.4:	Investigate and describe that magnets can attract magnetic materials and attract and repel other magnets.	<i>Big Ideas Book:</i> 344–345, 356, 438–450, 453–455, 458–459 <i>Science Inquiry and Writing Book:</i> 124, 154–157, 158–161 <i>Teacher's Edition:</i> T344–T345, T357, T437e–T437h, T438–T448, T449a–T449d.
SC.4.P.9.1:	Identify some familiar changes in materials that result in other materials with different characteristics, such as decaying animal or plant matter, burning, rusting, and cooking.	<i>Big Ideas Book:</i> 374–375, 384–392, 399, 402 <i>Science Inquiry and Writing Book:</i> 142–145 <i>Teacher's Edition:</i> T374–T375, T384–T391, T391a–T391d.
SC.4.P.10.1:	Observe and describe some basic forms of energy, including light, heat, sound, electrical, and the energy of motion.	<i>Big Ideas Book:</i> 470, 472–473, 475–482, 484–490, 492–499, 502, 504, 506–507, 514, 518–523 <i>Science Inquiry and Writing Book:</i> 162–165, 170–173, 174–177 <i>Teacher's Edition:</i> T461e–T461h, T464–T479, T505a–T505d.
SC.4.P.10.2:	Investigate and describe that energy has the ability to cause motion or create change.	<i>Big Ideas Book:</i> 470, 472, 474–477, 482, 486–487, 490, 494–496, 499 <i>Science Inquiry and Writing Book:</i> 124, 162–165 <i>Teacher's Edition:</i> T461e–T461h, T464–T467.
SC.4.P.10.3:	Investigate and explain that sound is produced by vibrating objects and that pitch depends on how fast or slow the object vibrates.	<i>Big Ideas Book:</i> 496–503, 506, 508, 510–511, 513–514 <i>Science Inquiry and Writing Book:</i> 125, 170–173, 174–177 <i>Teacher's Edition:</i> T493e–T493h, T496–T503, T505a–T505d.
SC.4.P.10.4:	Describe how moving water and air are sources of energy and can be used to move things.	<i>Big Ideas Book:</i> 478–479, 486–491, 494–499 <i>Teacher's Edition:</i> T478–T479, T486–T487–T490–T491.
SC.4.P.11.1:	Recognize that heat flows from a hot object to a cold object and that heat flow may cause materials to change temperature.	<i>Big Ideas Book:</i> 473, 482–485, 490, 498 <i>Science Inquiry and Writing Book:</i> 166–169 <i>Teacher's Edition:</i> T474–T477.
SC.4.P.11.2:	Identify common materials that conduct heat well or poorly.	<i>Big Ideas Book:</i> 476–477 <i>Science Inquiry and Writing Book:</i> 166–169 <i>Teacher's Edition:</i> T476–T477.

**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.4.P.12.1:	Recognize that an object in motion always changes its position and may change its direction.	<i>Big Ideas Book:</i> 406–413, 424, 430, 432–433 <i>Science Inquiry and Writing Book:</i> 123, 146–149 <i>Teacher's Edition:</i> T405e–T405h, T410–T413.
SC.4.P.12.2:	Investigate and describe that the speed of an object is determined by the distance it travels in a unit of time and that objects can move at different speeds.	<i>Big Ideas Book:</i> 406, 409, 414–424, 426–435 <i>Science Inquiry and Writing Book:</i> 150–153 <i>Teacher's Edition:</i> T414–T417, T422–T423, T423a–T423d.
LAFS.4.RI.1.3:	Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text.	<i>Teacher's Edition:</i> T5e-T5h, T33e-T33h, T45e-T45h, T85e-T85h, T103a-T103d, T117e-T117h, T149a-T149d, T169e-T169h, T209e-T209h, T209i-T209l, T249e-T249h, T275a-T275d, T313a-T313d, T333e-T333h, T373e-T373h, T391a-T391d, T423a-T423d, T437e-T437h, T461e-T461h, T493e-T493h
LAFS.4.RI.2.4:	Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.	<i>Big Ideas Book:</i> p. 11, 14, 15, 18, 24, 30, 54-56, 60, 94-98, 130, 141, 144, 176, 182, 191, 215-217, 226, 228, 232, 254, 266, 268, 294, 298, 304, 338, 346, 350, 378, 380, 382, 410-412, 414, 415, 442, 444, 446, 466, 470, 472, 474, 498, 500 <i>Teacher's Edition:</i> T6-T9, T46-T49, T86-T89, T118-T121, T170-T173, T210-T213, T250-T253, T290-T293, T334-T337, T374-
LAFS.4.RI.4.10:	By the end of year, read and comprehend informational texts, including history/social studies, science, and technical texts, in the grades 4–5 text complexity band proficiently, with scaffolding as needed at the high end of the range.	<i>Big Ideas Book:</i> p. 5-154, 169-318, 333-486 <i>Teacher's Edition:</i> T10-T33, T34-T44, T44a, T50-T69, T70-T84, T84a, T90-T103, T104-T116, T116a, T122-T149, T174-T195, T196-T208, T208a, T214-T235, , T236-T248, T254-T275, T276-T288, T288a, T294-T313, T314-T328, T328a, T338-T355, T356-T372, T372a, T378-T391, T392-T404, T404a, T410-T423, T424-T436, T442-T449, T450-T460, T466-T481, T482-T492, T498-T505, T506-T516
LAFS.4.SL.1.1:	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.	<i>Teacher's Edition:</i> T12, T23, T35, T44, T53, T62, T71, T84, T101, T105, T116, T125, T129, T151, T164, T193, T197, T208, T237, T248, T269, T277, T288, T289g, T306, T315, T328, T346, T350, T357, T372, T373e, T393, T404, T425, T436, T451, T460, T481c, T483, T492, T493g, T505c, T507, T516
	a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.	<i>Teacher's Edition:</i> T12, T23, T35, T44, T53, T62, T71, T84, T101, T105, T116, T125, T129, T151, T164, T193, T197, T208, T237, T248, T269, T277, T288, T289g, T306, T315, T328, T346, T350, T357, T372, T373e, T393, T404, T425, T436, T451, T460, T481c, T483, T492, T493g, T505c, T507, T516
	b. Follow agreed-upon rules for discussions and carry out assigned roles.	<i>Teacher's Edition:</i> T12, T23, T35, T44, T53, T62, T71, T84, T101, T105, T116, T125, T129, T151, T164, T193, T197, T208, T237, T248, T269, T277, T288, T289g, T306, T315, T328, T346, T350, T357, T372, T373e, T393, T404, T425, T436, T451,
	c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.	<i>Teacher's Edition:</i> T12, T23, T35, T44, T53, T62, T71, T84, T101, T105, T116, T125, T129, T151, T164, T193, T197, T208, T237, T248, T269, T277, T288, T289g, T306, T315, T328, T346, T350, T357, T372, T373e, T393, T404, T425, T436, T451, T460, T481c, T483, T492, T493g, T505c, T507, T516
	d. Review the key ideas expressed and explain their own ideas and understanding in light of the discussion.	<i>Teacher's Edition:</i> T12, T23, T35, T44, T53, T62, T71, T84, T101, T105, T116, T125, T129, T151, T164, T193, T197, T208, T237, T248, T269, T277, T288, T289g, T306, T315, T328, T346, T350, T357, T372, T373e, T393, T404, T425, T436, T451, T460, T481c, T483, T492, T493g, T505c, T507, T516

**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.)
LAFS.4.W.3.8:	Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of sources.	Each lesson gives opportunity to use prior knowledge. For Example: Teacher's Edition: T16, T23, T40, T50, T59, T67, T92, T97, T127, T152, T175, T176, T187, T198, T242, T264, T275, T305, T312, T316, T354, T355a, T359, T384, T395, T423, T426, T453, T478, T484
LAFS.4.W.3.9:	Draw evidence from literary or informational texts to support analysis, reflection, and research.	Big Ideas Book: p. 5-154, 169-318, 333-486 Teacher's Edition: T10-T33, T34-T44, T44a, T50-T69, T70-T84, T84a, T90-T103, T104-T116, T116a, T122-T149, T174-T195,
	a. Apply grade 4 Reading standards to literature (e.g., "Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text [e.g., a character's thoughts, words, or actions].").	This objective is not directly addressed at this grade level of National Geographic Science.
	b. Apply grade 4 Reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a text").	Big Ideas Book: p. 5-154, 169-318, 333-486 Teacher's Edition: T10-T33, T34-T44, T44a, T50-T69, T70-T84, T84a, T90-T103, T104-T116, T116a, T122-T149, T174-T195, T196-T208, T208a, T214-T235, , T236-T248, T254-T275, T276-T288, T288a, T294-T313, T314-T328, T328a, T338-T355, T356-
MAFS.4.MD.1.1:	Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	Teacher's Edition: T33a-T33b, T355a-T355d, T355e-T355h
MAFS.4.MD.2.4:	Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Solve problems involving addition and subtraction of fractions by using information presented in line plots. For example, from a line plot find and interpret the difference in length between the longest and shortest specimens in an insect collection.	Teacher's Edition: T33a-T33b
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, T11, T15, T21, T27, T37, T53, T55, T59, T67, T73, T86, T93, T101 T123, T133, T143, T153, T169g, T180, T183, T190, T206, T215, T219, T223, T228, T239, T255, T261, T265, T269, T271, T279, T295, T305, T309, T317, T333G, T339, T343, T345, T351, T378, T385, T398, T411, T428, T443, T453, T467, T471, T478, T485, T494, T503, T509
ELD.K12.ELL.SI.1:	English language learners communicate for social and instructional purposes within the school setting.	Teacher's Edition: T3, T11, T15, T21, T27, T37, T53, T55, T59, T67, T73, T86, T93, T101 T123, T133, T143, T153, T169g, T180, T183, T190, T206, T215, T219, T223, T228, T239, T255, T261, T265, T269, T271, T279, T295, T305, T309, T317,
HE.4.C.1.5:	Identify the human body parts and organs that work together to form healthy body systems.	This objective is not directly addressed at this grade level of National Geographic Science.