



Correlation to the Florida Course Description for Biology 1

Course Code 2000310

HMH Science Dimensions Biology ©2018

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SUBMISSION TITLE:	HMH Science Dimensions Biology ©2018
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BENCHMARK CODE	I RENCHMARK	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.912.E.7.1	Analyze the movement of matter and energy through the different biogeochemical cycles, including water and carbon.	SE : 158–169, 179, 477
	, , ,	TE: 115J–115L, 158–169, 179, 116B, 158B, 477
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 1–3
SC.912.L.14.1	Describe the scientific theory of cells (cell theory) and relate the history of its discovery to the process of science.	SE : 228–229, 232
	· ·	TE: 228–229, 222B, 232
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 4–6
SC.912.L.14.2	Relate structure to function for the components of plant and animal cells. Explain the role of cell membranes as a highly selective barrier (passive and active transport).	SE : 24–28, 102–105, 22–23, 96, 131, 248–251, 263–265, 279
		TE: 24–28, 102–105, 22–23, 96, 131, 248–251, 257J–257I, 263–265, 279
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 7–9
	Compare and contrast the general structures of plant and animal cells. Compare and contrast the general structures of prokaryotic and eukaryotic cells.	SE : 24–28, 239, 275, 288, 290–292
	, , ,	TE: 24–28, 16B, 239, 275, 288, 290–292
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 10–12

SC.912.L.14.4	Compare and contrast structure and function of various types of microscopes.	TE: 229
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 13–15
SC.912.L.14.6	Explain the significance of genetic factors, environmental factors, and pathogenic agents to health from the perspectives of both individual and public health.	SE : 69, 357, 364, 367–369, 40, 106–107, 227, 255, 301, 338, 346, 348, 353, 376, 384, 430, 473, 475, 479, 508
		TE: 69, 303K–303L, 357, 364, 367–369, 40, 106–107, 190, 221H, 227, 255, 301, 338, 346, 348, 353, 376, 384, 430, 473, 475, 479, 508
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 16–18
SC.912.L.14.7	Relate the structure of each of the major plant organs and tissues to physiological processes.	SE : 19
		TE: 19
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 19–22
SC.912.L.14.26	Identify the major parts of the brain on diagrams or models.	Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 23–25
SC.912.L.14.36	Describe the factors affecting blood flow through the cardiovascular system.	SE : 37–39, 21, 345
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		TE : 37–39, 21, 345
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 26–28
SC.912.L.14.52	Explain the basic functions of the human immune system, including specific and nonspecific immune response, vaccines, and antibiotics.	Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 29–31
SC.912.L.15.1	Explain how the scientific theory of evolution is supported by the fossil record,	SE : 383–391, 409, 412, 393, 402–403, 430, 435
	comparative anatomy, comparative embryology, biogeography, molecular biology, and observed evolutionary change.	TE : 383–391, 409, 412, 381H–381K, 382B, 393, 402–403, 430, 435
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 32–34
SC.912.L.15.4	Describe how and why organisms are hierarchically classified and based on evolutionary relationships.	Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 35–38
SC.912.L.15.5	Explain the reasons for changes in how organisms are classified.	Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 39–41
SC.912.L.15.6	Discuss distinguishing characteristics of the domains and kingdoms of living organisms.	Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 42–44

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SC.912.L.15.8	Describe the scientific explanations of the origin of life on Earth.	Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 45–47
SC.912.L.15.10	Identify basic trends in hominid evolution from early ancestors six million years ago to modern humans, including brain size, jaw size, language, and manufacture of tools.	Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 48–50
SC.912.L.15.13	Describe the conditions required for natural selection, including: overproduction of offspring, inherited variation, and the struggle to survive, which result in differential	SE: 404–410, 397–398, 415, 419–420, 422–425, 430
	reproductive success.	TE: 404–410, 381H–381J, 396B, 397–398, 415, 417l–417J, 419–420, 422–425, 430
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 51–54
SC.912.L.15.14	Discuss mechanisms of evolutionary change other than natural selection such as genetic drift and gene flow.	SE : 426–429, 467, 436–437
		TE : 426–429, 467, 417H, 418B, 436–437
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 55–57
SC.912.L.15.15	Describe how mutation and genetic recombination increase genetic variation.	SE : 311–313, 347–348, 351, 343–346, 385, 405, 419–420
		TE: 311–313, 347–348, 351, 304B, 342B, 343–346, 385, 405, 419–420
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 58–60
SC.912.L.16.1	Use Mendel's laws of segregation and independent assortment to analyze patterns of inheritance.	SE : 329–335, 337, 311, 317–319, 339, 373–375, 379
		TE: 329–335, 337, 303K–303L, 311, 316B, 317–319, 328B, 339, 373–375, 379
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 61–63
SC.912.L.16.2	Discuss observed inheritance patterns caused by various modes of inheritance, including dominant, recessive, codominant, sex-linked, polygenic, and multiple alleles.	SE : 321–324, 336–339, 379
		TE: 321–324, 336–339, 303K–303L, 316B, 379
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 64–66
SC.912.L.16.3	Describe the basic process of DNA replication and how it relates to the transmission and conservation of the genetic information.	SE : 266–268, 259
		TE: 266–268, 258B, 259
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 67–70

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SC.912.L.16.4		SE : 344–346, 349–351, 268, 282, 301, 405
	change. Explain how mutations in gametes may result in phenotypic changes in offspring.	TE: 344–346, 349–351, 268, 282, 301, 303K–303L, 342B, 405
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 71–73
SC.912.L.16.5	Explain the basic processes of transcription and translation, and how they result in the expression of genes.	SE : 277–282, 287–292, 273–276, 296, 301
		TE: 277–282, 287–292, 257I–257J, 272B, 273–276, 286B, 296, 301
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 74–76
SC.912.L.16.8	Explain the relationship between mutation, cell cycle, and uncontrolled cell growth potentially resulting in cancer.	SE : 227, 255, 343
	,	TE: 227, 255, 222B, 343
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 77–78
SC.912.L.16.9	Explain how and why the genetic code is universal and is common to almost all organisms.	SE : 383–384, 280
		TE: 383–384, 280
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 79–80
SC.912.L.16.10	Evaluate the impact of biotechnology on the individual, society and the environment, including medical and ethical issues.	SE : 49–51, 357–370, 52–57, 58–59, 92, 205, 236, 243, 283, 376, 384
		TE: 49–51, 357–370, 48B, 52–57, 58–59, 92, 205, 236, 243, 283, 303L, 356B, 376, 384
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 81–83
SC.912.L.16.13	Describe the basic anatomy and physiology of the human reproductive system. Describe the process of human development from fertilization to birth and major changes that occur in each trimester of pregnancy.	Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 84–86
SC.912.L.16.14		SE: 223–224, 237–240, 235–236
SC.912.L.10.14	the formation of new cells and its importance in maintaining chromosome number	
	during asexual reproduction.	TE : 223–224, 237–240, 2211–221J, 222B, 234B, 235–236
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 87–90

SC.912.L.16.16	Describe the process of meiosis, including independent assortment and crossing over. Explain how reduction division results in the formation of haploid gametes or spores.	SE : 307–313, 319, 405, 419
	explain now reduction division results in the formation of napiold gametes of spores.	TE: 307–313, 304B, 319, 405, 419
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 91–93
SC.912.L.16.17	Compare and contrast mitosis and meiosis and relate to the processes of sexual and asexual reproduction and their consequences for genetic variation.	SE : 309–310, 239–240, 311–313, 347, 405
	asexaal reproduction and their consequences for genetic variation.	TE: 309–310, 221i–221J, 239–240, 304B, 311–313, 347, 405
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 94–96
SC.912.L.17.2	Explain the general distribution of life in aquatic systems as a function of chemistry, geography, light, depth, salinity, and temperature.	Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 97–99
SC.912.L.17.4	Describe changes in ecosystems resulting from seasonal variations, climate change and succession.	SE : 206–207, 439–440, 443, 167, 212–215, 476–477, 494
	succession.	TE: 206–207, 439–440, 443, 141, 167, 196B, 203, 212–215, 434B, 476–477, 494
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 100–102
SC.912.L.17.5	Analyze how population size is determined by births, deaths, immigration, emigration, and limiting factors (biotic and abiotic) that determine carrying capacity.	SE: 186–192, 472
		TE: 186–192, 182B, 472
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 103–106
SC.912.L.17.8	Recognize the consequences of the losses of biodiversity due to catastrophic events, climate changes, human activity, and the introduction of invasive, non-native species.	SE : 200–202, 443, 487–494, 203–204, 207, 440
	climate changes, numan activity, and the introduction of invasive, non-native species.	TE: 200–202, 443, 487–494, 203–204, 207, 440, 4691–469J, 486B
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 107–109
SC.912.L.17.9	Use a food web to identify and distinguish producers, consumers, and decomposers. Explain the pathway of energy transfer through trophic levels and the reduction of	SE : 145–153, 117, 132, 179
	available energy at successive trophic levels.	TE: 145–153, 115J–115L, 117, 132, 140B, 179
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 110–112
SC.912.L.17.11	Evaluate the costs and benefits of renewable and nonrenewable resources, such as water, energy, fossil fuels, wildlife, and forests.	SE : 168, 473–483, 492–493, 499–503, 505–509, 166–167, 176, 365, 487–489
	, 0,,,	TE : 168, 469I–469J, 473–483, 492–493, 499–503, 505–509, 166–167, 176, 365, 470B, 486B, 487–489, 498B
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 113–115

SC.912.L.17.13	· · · · · · · · · · · · · · · · · · ·	SE: 208–209, 488–489, 491, 493–494, 500
	policy decisions.	
		TE: 208–209, 488–489, 469I–469J, 473, 481, 491, 493–494, 500
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 116–118
SC.912.L.17.20	Predict the impact of individuals on environmental systems and examine how human lifestyles affect sustainability.	SE: 166–168, 475–484, 487–489, 492–493, 502–505, 57, 144, 179, 201–203, 209, 365, 440, 443, 473–474, 499–500, 508
		TE : 166–168, 475–484, 487–489, 492–493, 502–505, 57, 144, 179, 201–203, 209, 365, 158B, 434B, 440, 443, 469H–469J, 470B, 473–474, 486B, 498B, 499–500, 508
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 119–121
SC.912.L.18.1	Describe the basic molecular structures and primary functions of the four major categories of biological macromolecules.	SE : 94–99, 83–85, 91, 102, 274
		TE: 94–99, 83–85, 90B, 91, 102, 274
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 122–124
SC.912.L.18.7	Identify the reactants, products, and basic functions of photosynthesis.	SE: 117–125, 100
		TE: 117–125, 100, 115K–115L, 116B
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 125–127
SC.912.L.18.8	Identify the reactants, products, and basic functions of aerobic and anaerobic cellular respiration.	SE: 129–137, 100–101
		TE: 129–137, 100–101, 115K–115L, 128B
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 128–130
SC.912.L.18.9	Explain the interrelated nature of photosynthesis and cellular respiration.	SE : 132, 161–162, 100
		TE: 132, 161–162, 100, 115K–115L, 116B
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 131–132
SC.912.L.18.10	Connect the role of adenosine triphosphate (ATP) to energy transfers within a cell.	SE: 100–101, 121–123, 133–135, 105, 131–132
		TE: 100–101, 121–123, 133–135, 90B, 105, 128B, 131–132
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 133–135

SC.912.L.18.11	Explain the role of enzymes as catalysts that lower the activation energy of biochemical reactions. Identify factors, such as pH and temperature, and their effect on enzyme	SE : 82–86, 98, 113
	activity.	TE: 82–86, 98, 113
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 136–138
SC.912.L.18.12	Discuss the special properties of water that contribute to Earth's suitability as an environment for life: cohesive behavior, ability to moderate temperature, expansion	SE: 76–78
	upon freezing, and versatility as a solvent.	TE: 76–78, 71H
		Florida Biology 1 End-of-Course Assessment Review and Practice (SE): 139–141

SC.912.N.1.1	Define a problem based on a specific body of knowledge, for example: biology,	SE: xxii–xxv, 34, 45, 69, 85–86, 104, 113, 130, 137, 154, 179, 185, 219, 230–231, 255, 269, 301, 352, 379, 397–398, 415, 426, 467, 482–483, 507, 515
	chemistry, physics, and earth/space science, and do the following:	
	1. Pose questions about the natural world, (Articulate the purpose of the investigation	TE: 3K-3L, 71I-71J, 115K-115L, 181I-181J, 221I-221J, 257I-257J, 303K-303L, 381I-381J, 417I-417J, 469I-469J, T80-T83, 34, 45, 69, 85-86, 104, 113, 130, 137,
	and identify the relevant scientific concepts).	154, 179, 185, 219, 230–231, 255, 269, 301, 352, 379, 397–398, 415, 426, 467, 482–483, 507, 515
	2. Conduct systematic observations, (Write procedures that are clear and replicable.	
	Identify observables and examine relationships between test (independent) variable	
	and outcome (dependent) variable. Employ appropriate methods for accurate and	
	consistent observations; conduct and record measurements at appropriate levels of	
	precision. Follow safety guidelines).	
	3. Examine books and other sources of information to see what is already known,	
	4. Beview what is known in light of empirical evidence, (Examine whether available	
	empirical evidence can be interpreted in terms of existing knowledge and models, and	
	if not, modify or develop new models).	
	5. Plan investigations, (Design and evaluate a scientific investigation).	
	6. Dse tools to gather, analyze, and interpret data (this includes the use of	
	measurement in metric and other systems, and also the generation and interpretation	
	of graphical representations of data, including data tables and graphs), (Collect data or	
	evidence in an organized way. Properly use instruments, equipment, and materials	
	(e.g., scales, probeware, meter sticks, microscopes, computers) including set-up,	
	calibration, technique, maintenance, and storage).	
	7. Pose answers, explanations, or descriptions of events,	
	8. Generate explanations that explicate or describe natural phenomena (inferences),	
	9. Dse appropriate evidence and reasoning to justify these explanations to others,	
	10. Dommunicate results of scientific investigations, and	
	11. Evaluate the merits of the explanations produced by others.	
SC.912.N.1.3	Recognize that the strength or usefulness of a scientific claim is evaluated through	SE: 68, 178, 218, 254, 300, 378, 414, 456, 466, 66, 119, 209, 216, 240, 252, 262, 313, 350
		TE: 68, 178, 218, 254, 300, 378, 414, 456, 466, 66, 92, 119, 184, 209, 216, 240, 252, 262, 313, 350
	consideration of alternative scientific explanations to explain the data presented.	, , , , , , , , , , , , , , , , , , , ,
SC.912.N.1.4	Identify sources of information and assess their reliability according to the strict	SE: 29, 216, 244, 313, 66, 107, 110, 168, 176, 209, 219, 276, 283, 290, 298, 301, 325, 362, 376, 386, 409, 412, 415, 440, 444–445, 464, 467, 471, 474, 481, 499,
	standards of scientific investigation.	512
		TE: 29, 92, 216, 244, 313, 66, 107, 110, 168, 176, 181G, 209, 219, 257I–257J, 276, 283, 290, 298, 301, 303K–303L, 325, 350, 362, 376, 386, 409, 412, 415,
		4171–417J, 438, 440, 444–445, 464, 467, 4691–469J, 471, 474, 481, 499, 512
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SC.912.N.1.6	·	SE : 383
	examples from the content being studied.	TE: 181G, 383
SC.912.N.2.1	Identify what is science, what clearly is not science, and what superficially resembles science (but fails to meet the criteria for science).	This Benchmark is beyond the scope of HMH Science Dimensions Biology .
SC.912.N.2.2	Identify which questions can be answered through science and which questions are outside the boundaries of scientific investigation, such as questions addressed by other ways of knowing, such as art, philosophy, and religion.	This Benchmark is beyond the scope of <i>HMH Science Dimensions Biology</i> .
SC.912.N.3.1	drawing together all the current evidence concerning a substantial range of	SE : 399 TE : 399, 403, 222B, 228, 382B
SC.912.N.3.4	Recognize that theories do not become laws, nor do laws become theories; theories are well supported explanations and laws are well supported descriptions.	This Benchmark is beyond the scope of HMH Science Dimensions Biology .
LAFS.910.RST.1.1		This standard is addressed throughout the entire program. Representative examples: SE: 28, 43, 81, 121, 168, 193, 238, 267, 319, 359, 393, 428, 455, 501
		TE: 28, 43, 81, 121, 168, 193, 238, 267, 319, 359, 393, 428, 455, 501
LAFS.910.RST.1.2	depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.	This standard is addressed throughout the entire program. Representative examples: SE: 59, 135–136, 262, 282, 292, 403 TE: 34, 59, 97–98, 135–136, 188, 207, 262, 282, 292, 331, 359, 391, 403, 489
LAFS.910.RST.1.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions	
LAFS.910.RST.2.4	phrases as they are used in a specific scientific or technical context relevant to grades 9–10 texts and topics.	This standard is addressed throughout the entire program. Representative examples: SE: 33, 35, 98, 236, 266, 277, 287, 359
		TE : 31, 4B, 33, 35, 71G, 98, 1151, 158B, 182B, 236, 266, 277, 287, 320–321, 359, 434B, 498B
LAFS.910.RST.2.5	,	This standard is addressed throughout the entire program. Representative examples: SE: 11, 132, 177, 226, 282, 402–403
		TE: 11, 71G, 132, 177, 226–227, 282, 316B, 342B, 402–403, 417G, 470B

LAFS.910.RST.2.6	Analyza the system of a numbers in annuiting an applacation, describing a presenting or	This standard is beyond the same of UMU Crimes Dimensions Dialogy.
LAFS.910.RS1.2.6	Analyze the author's purpose in providing an explanation, describing a procedure, or	This standard is beyond the scope of HMH Science Dimensions Biology .
	discussing an experiment in a text, defining the question the author seeks to address.	
LAFS.910.RST.3.7	· · · · · · · · · · · · · · · · · · ·	This standard is addressed throughout the entire program. Representative examples:
	form (e.g., a table or chart) and translate information expressed visually or	SE : 19, 81–82, 198, 200, 238, 267, 319, 334, 390, 430, 467, 490
	mathematically (e.g., in an equation) into words.	
		TE : 19, 81–82, 160, 190, 198, 200, 235, 238, 267, 308, 319, 334, 349, 390, 430, 440, 467, 490, 504
LAFS.910.RST.3.8	Assess the extent to which the reasoning and evidence in a text support the author's	SE: 66, 168, 209, 216, 313, 445
	claim or a recommendation for solving a scientific or technical problem.	
		TE: 66, 97, 168, 209, 216, 313, 445
LAFS.910.RST.3.9	Compare and contrast findings presented in a text to those from other sources	SE : 68, 178, 218, 254, 300, 378, 414, 466
	(including their own experiments), noting when the findings support or contradict	
	previous explanations or accounts.	TE: 68, 178, 218, 254, 300, 378, 414, 466
LAFS.910.RST.4.10	By the end of grade 10, read and comprehend science/technical texts in the grades	This standard is addressed throughout the entire program. Representative examples:
	9–10 text complexity band independently and proficiently.	SE : 32–47, 90–109, 158–171, 196–211, 234–247, 286–297, 328–341, 382–395, 434–447, 498–511
		TE: 32–47, 90–109, 158–171, 196–211, 234–247, 286–297, 328–341, 382–395, 434–447, 498–511
LAFS.910.SL.1.1	Initiate and participate effectively in a range of collaborative discussions (one-on-one,	This standard is addressed throughout the entire program. Representative examples:
	in groups, and teacher-led) with diverse partners on grades 9–10 topics, texts, and	SE : 4, 26, 84, 131, 165, 208–209, 260, 283, 318, 363, 429, 487, 494
	issues, building on others' ideas and expressing their own clearly and persuasively.	
	a. 20me to discussions prepared, having read and researched material under study;	TE: 4, 26, 84, 131, 165, 208–209, 260, 283, 318, 356–357, 363, 429, 4691–469J, 487, 494
	explicitly draw on that preparation by referring to evidence from texts and other	
	research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of	
	ideas.	
	b. Work with peers to set rules for collegial discussions and decision-making (e.g.,	
	informal consensus, taking votes on key issues, presentation of alternate views), clear	
	goals and deadlines, and individual roles as needed.	
	c. Propel conversations by posing and responding to questions that relate the current	
	discussion to broader themes or larger ideas; actively incorporate others into the	
	discussion; and clarify, verify, or challenge ideas and conclusions.	
	d.Bespond thoughtfully to diverse perspectives, summarize points of agreement and disagreement, and, when warranted, qualify or justify their own views and	
	understanding and make new connections in light of the evidence and reasoning	
	presented.	
	presented.	

LAFS.910.SL.1.2	Integrate multiple sources of information presented in diverse media or formats (e.g.,	This standard is addressed throughout the entire program. Representative examples:
	visually, quantitatively, orally) evaluating the credibility and accuracy of each source.	SE : 29, 216, 244, 66, 107, 168, 219, 298, 376, 409, 440, 464, 499
		TE: 29, 216, 244, 66, 107, 168, 219, 257I–257J, 298, 376, 409, 440, 464, 469I–469J, 499
LAFS.910.SL.1.3	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.	This standard is beyond the scope of <i>HMH Science Dimensions Biology</i> .
LAFS.910.SL.2.4	such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.	This standard is addressed throughout the entire program. Representative examples: SE: 29, 69, 125, 179, 209, 255, 301, 379, 409, 464, 512 TE: 3K–3L, 29, 69, 97, 125, 179, 209, 255, 257I–257J, 301, 365, 379, 409, 464, 469I–469J, 512
LAFS.910.SL.2.5	interactive elements) in presentations to enhance understanding of findings, reasoning,	SE : 13, 29, 59, 125, 216, 298, 415, 471, 512 TE : 13, 29, 59, 125, 216, 298, 361, 415, 438, 441, 471, 512
LAFS.910.WHST.1.1	claims, and create an organization that establishes clear relationships among the	This standard is addressed throughout the entire program. Representative examples: SE: 30, 66, 86, 110, 209, 255, 262, 313, 357, 456, 481, 494 TE: 30, 66, 86, 110, 209, 255, 262, 313, 350, 357, 456, 469I–469J, 481, 494

LAFS.910.WHST.1.2	Write informative/explanatory texts, including the narration of historical events,	This standard is addressed throughout the entire program. Representative examples:
	scientific procedures/ experiments, or technical processes.	SE: 45, 86, 107, 168, 192–193, 273, 290, 295, 344, 393, 445, 467, 509
	a. Introduce a topic and organize ideas, concepts, and information to make important	
	connections and distinctions; include formatting (e.g., headings), graphics (e.g., figures,	TE: 45, 86, 96, 107, 168, 192–193, 273, 290, 295, 344, 393, 445, 467, 509
	tables), and multimedia when useful to aiding comprehension.	
	b. Develop the topic with well-chosen, relevant, and sufficient facts, extended	
	definitions, concrete details, quotations, or other information and examples	
	appropriate to the audience's knowledge of the topic.	
	c. Dse varied transitions and sentence structures to link the major sections of the text,	
	create cohesion, and clarify the relationships among ideas and concepts.	
	d. Dse precise language and domain-specific vocabulary to manage the complexity of	
	the topic and convey a style appropriate to the discipline and context as well as to the	
	expertise of likely readers.	
	e. Establish and maintain a formal style and objective tone while attending to the	
	norms and conventions of the discipline in which they are writing.	
	f. Provide a concluding statement or section that follows from and supports the	
	information or explanation presented (e.g., articulating implications or the significance	
	of the topic).	
LAFS.910.WHST.2.4	Produce clear and coherent writing in which the development, organization, and style	This standard is addressed throughout the entire program. Representative examples:
	are appropriate to task, purpose, and audience.	SE : 59, 107, 113, 168, 244, 255, 298, 344, 376, 412, 467, 509
		TE: 59, 71I–71J, 107, 113, 168, 244, 255, 298, 344, 376, 412, 467, 509
LAFS.910.WHST.2.5	1 0 71 0 0	TE: 107, 168
	trying a new approach, focusing on addressing what is most significant for a specific	
	purpose and audience.	
LAFS.910.WHST.2.6	Use technology, including the Internet, to produce, publish, and update individual or	SE: 66, 110, 168, 176, 244, 290, 344, 376, 445, 456, 464
	shared writing products, taking advantage of technology's capacity to link to other	
	information and to display information flexibly and dynamically.	TE: 66, 110, 168, 176, 244, 290, 344, 376, 445, 456, 464
LAFS.910.WHST.3.7	Conduct short as well as more sustained research projects to answer a question	This standard is addressed throughout the entire program. Representative examples:
	(including a self-generated question) or solve a problem; narrow or broaden the inquiry	SE: 9, 69, 107, 176, 216, 276, 301, 344, 386, 409, 440, 499, 505
	when appropriate; synthesize multiple sources on the subject, demonstrating	
	understanding of the subject under investigation.	TE: 9, 43, 69, 71I–71J, 107, 176, 216, 276, 301, 303K–303L, 344, 386, 409, 440, 469I–469J, 499, 505

LAFS.910.WHST.3.8	Gather relevant information from multiple authoritative print and digital sources, using	This standard is addressed throughout the entire program. Representative examples:
LAF3.910.WH31.3.6	, , , , , , , , , , , , , , , , , , , ,	SE: 59, 66, 110, 176, 216, 219, 252, 298, 301, 376, 386, 412, 440, 464, 467, 512
	research question; integrate information into the text selectively to maintain the flow	32. 33, 66, 116, 176, 218, 232, 236, 361, 376, 366, 412, 446, 464, 467, 312
		TE: 59, 66, 110, 176, 216, 219, 252, 257I–257J, 298, 301, 303K–303L, 376, 386, 412, 440, 464, 467, 469I–469J, 512
1	or locas, avoiding plagfarism and following a standard format for citation.	111. 33, 00, 110, 170, 210, 213, 232, 2371 2373, 230, 301, 303K 303L, 370, 300, 412, 440, 404, 407, 4031 4033, 312
LAFS.910.WHST.3.9	Draw evidence from informational texts to support analysis, reflection, and research.	This standard is addressed throughout the entire program. Representative examples:
		SE : 30, 92, 106–107, 168, 219, 283, 298, 344, 369, 444–445, 494
		TE: 30, 92, 96, 106–107, 168, 219, 257I–257J, 283, 298, 344, 369, 444–445, 469I–469J, 494
LAFS.910.WHST.4.10	Write routinely over extended time frames (time for reflection and revision) and	This standard is addressed throughout the entire program. Representative examples:
	shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	SE : 21, 59, 107, 168, 244, 276, 326, 376, 440, 467, 509
		TE: 3K-3L, 21, 59, 107, 168, 244, 257I-257J, 276, 326, 376, 440, 467, 509
HE.912.C.1.3	Evaluate how environment and personal health are interrelated.	SE : 255, 106–107, 227, 353, 473, 475
		TE: 255, 106–107, 190, 221H, 227, 353, 473, 475
HE.912.C.1.5	Analyze strategies for prevention, detection, and treatment of communicable and chronic diseases.	SE : 69, 301, 364, 367–369, 352, 376, 430, 479, 508
		TE: 69, 301, 364, 367–369, 352, 376, 430, 479, 508
HE.912.C.1.7	Analyze how heredity and family history can impact personal health.	SE : 255, 301, 227, 338, 346, 353, 357, 376
		TE: 255, 301, 303K–303L, 227, 338, 346, 353, 357, 376
MAFS.912.N-Q.1.1	, , ,	SE : 150, 255, 483
	problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.	TE: 150, 255, 483
	source and the origin in graphs and data displays.	1.2. 253, 253, 153
MAFS.912.N-Q.1.3	Choose a level of accuracy appropriate to limitations on measurement when reporting	SE: 86, 185, 231, 482–483
	quantities.	
		TE: 86, 185, 231, 482–483
ELD.K12.ELL.SC.1	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.	TE : 4B, 222B, 234B, 286B, 304B, 328B, 382B, 396B, 434B, 470B, 498B
ELD.K12.ELL.SI.1	English language learners communicate for social and instructional purposes within the school setting.	TE: 4B, 16B, 32B, 48B, 72B, 128B, 140B, 222B, 234B, 258B, 286B, 304B, 316B, 328B, 356B, 382B, 396B, 434B, 498B