



Correlation of

***National Geographic Learning Biology, FL
Edition*** © 2024,
ISBN: 9798214068275

to

**Florida Science Standards
G9-12 Life Science Access Points**

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Access Points	Student Material References	Teacher Material References
Organization and Development of Living Organisms		
SC.912.L.14.In.1 Identify that all living things are made of cells and cells function in similar ways (cell theory).	164, 166-167, 302	T164, 166-167, T302
SC.912.L.14.In.2 Identify the major parts of plant and animal cells, including the cell membrane, nucleus, and cytoplasm, and their basic functions.	169-173, 178-179	T169-T173, T178-T179
SC.912.L.14.In.3 Identify that parts of cells (organelles) can combine to work together.	166, 169-173, 178-179, 235, 302	T166, T169-T173, T178-T179, T235, T302
SC.912.L.14.In.4 Describe common human health issues.	201, 232, 256-258, 428, 584-586	T201, T232, T256-T258, T65, T428 T584-T586
SC.912.L.14.In.5 Describe the general processes of food production, support, water transport, and reproduction in the major parts of plants.	266-267, 269-270, 282-283, 284-285	T266-T267, T269-T270, T282-T283, T284-T285
SC.912.L.14.Pa.4 Recognize major plant parts, such as root, stem, leaf, and flower.	266-267, 269-270, 282-283, 384-385	T266-T267, T269-T270, T282-T283, T384-T385
SC.912.L.14.Pa.2 Recognize that small parts of a living thing can work together.	169-173, 178-179, 235, 269-270, 302-305	T169-T173, T178-T179, T235, T269- T270, T302-T305,
SC.912.L.14.Pa.1 Match parts of common living things to their functions.	266-267, 269-271, 274-275, 282-283	T266-T267, T269-T271, T274-T275, T282-T283
SC.912.L.14.Pa.3 Identify ways to prevent infection from bacteria and viruses, such as hand washing and first aid.	231-232, 305, 435, 584	T231-T232, T305, T435, T585
SC.912.L.14.Su.2 Recognize that cells have different parts and each has a function.	169-173, 178-179, 232	T166-T167, T178-T179, T232
SC.912.L.14.Su.1 Identify that the cell is the smallest basic unit of life and that all living things are made of cells.	166-167, 302	T166-T167, T302
SC.912.L.14.Su.3 Recognize common human health issues.	231, 255-258, 428, 584-585	T231, T255-T258, T428, T584-T585
SC.912.L.14.Su.4 Relate parts of plants, such as leaf, stem, root, seed, and flower, to the functions of food production, support, water transport, and reproduction.	266-267, 269-270, 282-285	T266-T267, T269-T270, T282-T285
Diversity and Evolution of Living Organisms		
SC.912.L.15.In.1 Identify that prehistoric plants and animals changed over time (evolved) or became extinct.	301, 447-454, 458, 480	T301, T447, T448-T453, T454, T458, T480
SC.912.L.15.In.2 Classify living organisms into their kingdoms.	4-5, 227, 298, 300	T4-T5, T227, T298, T300

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SC.912.L.15.In.3 Identify that there are scientific explanations of the origin of life on Earth.	461	T267, T461
SC.912.L.15.In.4 Recognize ways that the appearance of humans, their language, and their tools have changed over time.	572-574	T457, T572-T574
SC.912.L.15.In.5 Recognize that some living things produce very large numbers of offspring to ensure that enough survive to continue the species (a condition for natural selection).	108, 483	T101, T108, T483
SC.912.L.15.In.6 Identify that prehistoric plants and animals changed over time (evolved) or became extinct.	7, 301, 450-451, 454, 458, 473, 480	T7, T301, T450-451, T454, T458, T473, T480
SC.912.L.15.In.7 Recognize that changes in the genes of a species can affect the characteristics of their offspring.	7, 35, 477, 482, 484, 486-492	T7, T35, T477, T482, T484, T486-T492
SC.912.L.15.Pa.4 Recognize differences in physical characteristics within a species of animals, such as different types of dogs.	366-367, 487-488	T366-T367, T487-488, T515
SC.912.L.15.Pa.2 Sort common living things into plant and animal kingdoms.	298, 300, 482, 562-566, 568-571	T298, T300, T482, 562-566, 568-571
SC.912.L.15.Pa.3 Recognize that animals produce offspring.	108, 303, 306, 323, 345, 374-376, 504	T101, T108, T303, T306, T323, T345, T374-T376, T504
SC.912.L.15.Pa.1 Recognize that plants and animals change as they age.	10, 323, 466, 471	T10, T323, T466, T471
SC.912.L.15.Su.2 Match organisms to the animal, plant, and fungus kingdoms.	5, 164, 244, 298, 300, 562-571	T5, T164, T244, T298, T300, T562-T571
SC.912.L.15.Su.4 Recognize that humans have changed in appearance over a very long period of time.	572-574	T572-T574
SC.912.L.15.Su.3 Recognize that there are scientific explanations of how life began.	461	T267, T461
SC.912.L.15.Su.5 Recognize that some living things, such as fish and turtles, produce very large numbers of offspring because most will die as a result of dangers in the environment before they grow up.	32, 108, 483	T32, T108, T483
SC.912.L.15.Su.6 Recognize that characteristics of the offspring of living things are sometimes different from their parents.	7, 35, 306, 366-367, 376, 384-388, 567	T7, T35, T306, T366-T367, T376, T384-T388, T567
SC.912.L.15.Su.1 Match fossils to related species.	301, 450-451, 454-455, 458, 480, 572-	T301, T450-T451, T454-T455, T458,

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Access Points	Student Material References	Teacher Material References
	573	T480, T572-T573
Heredity and Reproduction		
SC.912.L.16.In.1 Identify that genes are sets of instructions that determine which characteristics are passed from parent to offspring.	6, 200, 335, 337, 366-370, 374-376, 384-386, 390, 397	T6, T200, T284, T335, T337, T366-T370, T374-T376, T384-T386, T390, T397
SC.912.L.16.In.2 Identify traits that plants and animals, including humans, inherit.	335, 366-367, 384-388, 390-393, 396-397, 503	T335, T366-T367, T384-T388, T390-T393, T396-T397, T503, T515
SC.912.L.16.In.3 Recognize that a substance called DNA carries genetic information in all organisms, and changes (mutations) in DNA can be helpful or harmful to an organism.	7-8, 203-204, 334-343, 347-354, 357, 360-361, 378-381, 467, 483	T7-T8, T203-T204, T334-T343, T347-T354, T357, T360-T361, T378-T381, T467, T483
SC.912.L.16.In.4 Identify that cancer can result when cells change or grow uncontrollably.	197, 201-203, 214-216, 414	T197, T201-T203, T214-T216, T414
SC.912.L.16.In.5 Identify ways that biotechnology has impacted society and the environment, such as the development of new medicines and farming techniques.	115, 203, 337, 371, 401-409, 412-422, 439	T115, T203, T337, T371, T380, T401-T409, T412-T422, T439
SC.912.L.16.In.6 Describe the basic process of human development from fertilization to birth.	209-211, 306, 370-373, 466, 579-581	T209-T211, T306, T370-T373, T409, T466, T579-T581
SC.912.L.16.In.7 Recognize that cells reproduce by dividing to produce new cells that are identical (mitosis) or new cells that are different (meiosis).	197, 205-208, 306, 370-373, 576	T197, T205-T208, T306, T347, T370-T373, T576, T578
SC.912.L.16.Pa.6 Recognize that living things produce offspring (reproduce).	108, 282-285, 323, 374-376, 384-385, 397, 466, 575-580	T108, T282-T285, T323, T374-T376, T384-T385, T397, T466, T575-T580
SC.912.L.16.Pa.3 Recognize that illness can result when parts of our bodies are not working properly.	126, 195, 197, 201, 203, 219, 306, 584-587	T126, T195, T197, T201, T203, T219, T306, T584-T587
SC.912.L.16.Pa.4 Recognize a food.	151, 517	T151, T188, T241, T517
SC.912.L.16.Pa.1 Recognize similar characteristics (traits) between a child and parents, such as hair, eye, and skin color, or height.	6, 384, 390-393	T6, T384, T390-T393
SC.912.L.16.Pa.2 Recognize similarities in characteristics of plants and animals of the same type (species).	284-285, 335, 363, 384-385, 391-393, 396-397	T284-T285, T335, T363, T384-T385, T391-T393, T396-T397
SC.912.L.16.Pa.5 Recognize the sequence of human development from baby to child to adult.	306, 581	T306, T581
SC.912.L.16.Su.2 Recognize that all organisms have a substance called DNA with unique information.	8, 115, 204, 334-343, 378-381	T8, T115, T204, T334-T343, T378-T381
SC.912.L.16.Su.4 Recognize that new medicines and foods can be	197, 368-371, 402-409, 412-415, 418-	T197, T368-T371, T380, T402-T409,

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developed by science (biotechnology).	422, 439	T412-T415, T418-T422, T439
SC.912.L.16.Su.3 Recognize that cancer may result when cells change or grow too fast.	197, 201-203, 214-216	T197, T201-T203, T214-T216
SC.912.L.16.Su.5 Recognize major phases in the process of human development from fertilization to birth.	209-211, 306, 370-373, 466, 579-581	T209-T211, T306, T370-T373, T466, T579-T581
SC.912.L.16.Su.6 Recognize that cells reproduce by dividing.	197, 205-211, 217, 416-417	T197, T205-T211, T217, T416-T417
SC.912.L.16.Su.1 Recognize characteristics (traits) that offspring inherit from parents.	323, 335, 363, 384-393, 396-397, 471	T323, T335, T363, T384-T393, T396-T397, T471
Interdependence		
SC.912.L.17.In.1 Recognize that living things in oceans and fresh water are affected by the location, availability of light, depth of the water, and temperature.	29, 41-42, 48-51, 53, 56, 94, 110	T29, T41-T42, T46, T48-T51, T53, T94, T110
SC.912.L.17.In.2 Identify that living things in an ecosystem are affected by changes in the environment, such as changes to the food supply, climate change, or the introduction of predators.	50, 52, 57-58, 70-71, 76-78, 110, 112, 518	T50, T52, T57-T58, T70-T71, T76-T78, T94, T110, T112, T518
SC.912.L.17.In.3 Identify relationships among organisms, including helping each other (mutualism); obtaining food (predation); benefiting at the expense of the other (parasitism); and competing with each other for food, space, or shelter (competition).	35, 54-56, 68, 78-80, 94, 96, 112-114	T34, T54-T56, T68, T76, T78-T80, T94, T96, T112-T114
SC.912.L.17.In.4 Recognize possible changes in an ecosystem (biodiversity) that can result from natural catastrophic events, changes in climate, and human activity.	52, 57-58, 70-71, 76-77, 88-89, 110, 513, 516-517, 522-528	T52, T57-T58, T70-T71, T76-T77, T88-T89, T110, T513, T516-517, T522-528
SC.912.L.17.In.5 Identify the components of a food web, including sunlight, producers, consumers, and decomposers, and trace the flow of energy from the Sun.	54-57, 59-60, 62, 64, 78, 114, 117, 123	T54-57, T59-T60, T62, T64, T78, T114, T116-T117, T123
SC.912.L.17.In.6 Identify the contributions of non-living elements, such as carbon and oxygen, to maintaining life in an ecosystem.	29, 45, 49, 65, 67-69, 71, 73, 94	T29, T45, T49, T50, T51, T65, T67-T69, T71, T73, T94
SC.912.L.17.In.7 Identify types of renewable and nonrenewable natural resources and explain the need for conservation.	57, 73, 193, 521-522, 528, 531-532, 535, 538	T53, T73, T193, T521-T522, T528, T531-T532, T535, T538
SC.912.L.17.In.8 Describe ways the lifestyles of individuals and groups can help or hurt the environment.	52, 58, 70, 73, 84, 89, 513, 516-517, 522-528, 530-535	T50, T52, T58, T70, T73, T84, T89, T513, T516-T517, T522-T528, T530-T535
SC.912.L.17.Pa.7 Recognize a way to help the local environment.	32, 58, 72, 84, 91, 522, 530-535, 538	T32, T58, T68, T71, T72, T84, T91, T522, T530-T535, T538
SC.912.L.17.Pa.6 Recognize the importance of clean water for living things.	29, 50, 71-72, 522, 531, 535	T29, T50, T71-T72, T522, T531, T535
SC.912.L.17.Pa.4 Recognize actions that are harmful to living	35, 68, 71, 73, 513, 516-517, 522-528,	T35, T68, T71, T73, T513, T516-T517,

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things.	531	T522-528, T531
SC.912.L.17.Pa.5 Recognize that animals (consumers) eat animals and plants for food.	54-57, 60-61, 64, 78, 80, 96, 112, 114	T54-57, T60-61, T64, T78, T80, T96, T112, T114
SC.912.L.17.Pa.2 Recognize what happens to plants and animals when they don't get enough food or water.	42, 66, 74, 78, 80, 112, 114, 117	T42, T66, T74, T78, T80, T112, T114, T116-T117
SC.912.L.17.Pa.3 Recognize examples of mutual relationships between people and other living things.	32, 41, 45, 54-56, 71, 73, 76, 78-81, 124-125, 174, 513-518	T32, T41, T45, T48, T54-T56, T71, T73, T76, T78-T81, T124-T125, T174, T513-T518
SC.912.L.17.Pa.1 Recognize common living things in bodies of water.	29, 42, 50, 52, 72-73, 79, 118, 530	T29, T42, T50, T52, T72-T73, T79, T118, T530
SC.912.L.17.Su.2 Recognize how animals and plants in an ecosystem may be affected by changes to the food supply or climate.	57, 70-71, 78, 80, 94, 96, 114, 117-118, 524	T57, T70-T71, T78, T80, T94, T96, T114, T116-T118, T524
SC.912.L.17.Su.3 Recognize that organisms can interact with other organisms in an ecosystem to help each other (mutualism), to obtain food (predation), and to benefit at expense of the other (parasitism).	54-56, 68, 73, 78-80, 96, 112, 114, 118, 326	T54-T56, T68, T73, T78-T80, T96, T112, T114, T118, T326
SC.912.L.17.Su.6 Identify that clean water and air are important for supporting life in an ecosystem.	29, 50, 65, 70-71, 118, 518, 522, 531, 535	T29, T50, T65, T70-T71, T118, T518, T522, T531, T535
SC.912.L.17.Su.5 Identify producers, consumers, and decomposers in a simple food chain.	54-57, 59-62, 64, 72-73, 78, 114, 117, 123	T54-T57, T59-T62, T64, T72-T73, T78, T114, T116-T117, T123
SC.912.L.17.Su.4 Recognize changes in living things (biodiversity) that can result from natural catastrophic events and human activity.	50, 57, 68, 70-72, 77, 513, 516-517, 522-528	T50, T57, T68, T69, T70-T72, T77, T513, T516-T517, T522-T528
SC.912.L.17.Su.1 Recognize that living things in bodies of water are affected by the location and depth of the water.	41-42, 48-49, 51-53, 73, 108, 123, 522	T41-T42, T48-49, T51-T53, T73, T108, T123, T522
SC.912.L.17.Su.8 Identify ways individuals can help the environment.	58, 71-72, 81, 523, 529, 531-532	T48, T50, T58, T71-T72, T81, T523, T529, T531-T532
SC.912.L.17.Su.7 Identify a way to conserve a familiar, nonrenewable, natural resource.	521, 529, 531-532, 538	T48, T265, T521, T529, T531-T532, T538
Matter and Energy Transformations		
SC.912.L.18.In.1 Identify that carbohydrates, fats, proteins, and nucleic acids (macromolecules) are important for human organisms.	68-69, 142-150, 186	T68-T69, T142-T150, T186
SC.912.L.18.In.2 Identify the products and function of photosynthesis.	45, 185-186, 190-191, 560-561	T45, T51, T185-T186, T190-T191, T560-T561
SC.912.L.18.In.3 Identify that cells release energy from food so the	45, 59, 60, 64, 162, 185-189, 556-559	T45, T59, T60, T64, T162, T185-T189

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organism can use it (cellular respiration).		T556-T559
SC.912.L.18.In.4 Recognize that plants give off oxygen that is used by animals and animals give off carbon dioxide that is used by plants.	45, 185-191, 527, 556-559, 560-561	T45, T51, T185-T191, T527, T556-T559, T560-T561
SC.912.L.18.In.5 Recognize that energy is stored in cells.	60, 185-188, 556-559	T60, T185-T188, T556-T559
SC.912.L.18.In.6 Recognize that enzymes break down food molecules during the digestive process.	157, 159-160, 303-304	T157, T159-T160, T303-304
SC.912.L.18.In.7 Identify that special properties of water, such as the ability to moderate temperature and dissolve substances, help to sustain living things on Earth.	135-136, 137-140	T135-T136, T137-T140
SC.912.L.18.Pa.4 Recognize that saliva helps people eat when they chew.	303-304, 326	T303-T304, T326
SC.912.L.18.Pa.5 Recognize that plants and animals use water to live.	66, 185-186, 190-191, 266-268, 274-276	T66, T185-T186, T190-T191, T266-T268, T274-T276
SC.912.L.18.Pa.2 Recognize that plants need water, light, and air to grow.	66, 73, 185-186, 190-191, 266-268 274-276	T66, T73, T185-T186, T190-T191, T266-T268, T274-T276
SC.912.L.18.Pa.3 Identify that food is a source of energy.	58, 61, 78, 144-145, 162, 186-188, 303-304	T58, T61, T78, T144-T145, T162, T186-T188, T303-T304
SC.912.L.18.Pa.1 Recognize that humans need different kinds of food.	68, 126-127, 144-146, 149, 151, 586	T68, T126-T127, T144-T146, T149, T151, T586
SC.912.L.18.Su.1 Recognize that humans use proteins, carbohydrates, and fats.	142-147, 149-150	T142-T147, T149-T150
SC.912.L.18.Su.4 Recognize that people and animals breathe in the oxygen that plants give off.	45, 185-186, 190-191, 560-561	T45, T185-T186, T190-T191, T560-T561
SC.912.L.18.Su.3 Recognize that cells get energy from food.	61, 185-188, 303-304, 556-559	T61, T185-T188, T303-T304, T556-T559
SC.912.L.18.Su.2 Recognize that the function of photosynthesis is to produce food for plants.	185-186, 190-191, 560-561	T185-T186, T190-T191, T560-T561
SC.912.L.18.Su.6 Identify the important role of water in sustaining life of plants and animals.	66, 137-139, 266-268, 274-276	T66, T137-T139, T266-T268, T274-T276

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SC.912.L.18.Su.5 Recognize that food is broken down in digestion (use of enzymes).	124-125, 144-145, 186, 303-304	T124-T125, T144-T145, T186, T303-T304

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