

Revised for 2010-11

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Week  Date	Topic	CA Standards	SEPUP Issues & Life Science	Text Holt 2007
<b>1</b> Aug. 30	Introduction	<ul> <li>7.1.a Students know cells function similarly in all living organisms.</li> <li>7.7.a Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data.</li> <li>7.7.b Use a variety of print and electronic resources (including the World Wide Web) to collect information and evidence as part of a research project.</li> </ul>	None	Scientific Method: P. 8-18  Tools & Measurement: P. 20- 25
<b>2</b> Sep. 7	Living Things	<ul> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.</li> <li>7.7.e Communicate the steps and results from an investigation in written reports and oral presentations.</li> </ul>		Safety: P.32-37  Characteristics of Living Things: P. 52-55
<b>3</b> Sep. 13	Cell	<ul> <li>7.1.a Students know cells function similarly in all living organisms.®</li> <li>7.1.b Students know the characteristics that distinguish plant cells from animal cells, including chloroplasts and cell walls.</li> <li>7.1.c Students know the nucleus is the repository for genetic information in plant and animal cells. ©</li> <li>7.1.f Students know that as multi-cellular organisms develop, their cells differentiate.</li> <li>7.5.a. Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism.</li> </ul>	None	Using a Microscope: P 100  Cells & Cell Theory: P.114-115  Parts of a Cell: P 117, 120-126  Organization of
<b>4</b> Sep. 20	Cell Structure	<ul> <li>7.7.a Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data.</li> <li>8</li> <li>7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure).</li> </ul>		Living Things: P 128-132



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Week  Date	Topic	CA Standards	SEPUP Issues & Life Science	Text Holt 2007	
<b>5</b> Sep. 27	- Cell Processes	<ul> <li>7.1.b Students know the characteristics that distinguish plant cells from animal cells, including chloroplasts and cell walls.®</li> <li>7.1.d Students know that mitochondria liberate energy for the work that cells do and that chloroplasts capture sunlight energy for photosynthesis. ©</li> <li>7.6.a Students know visible light is a small band within a very broad electromagnetic spectrum.</li> </ul>	None	Photosynthesis: P. 148 P. 396-399  Cellular Respiration: P. 149-150	
<b>6</b> Oct. 4	Ceu i rocesses	<ul> <li>7.7.a Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data.®</li> <li>7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure).®</li> </ul>		Electro-magnetic spectrum P.76-81 Visible light P. 78-79	
<b>7</b> Oct. 11	– Cell Division	et. 11	<ul> <li>7.1.b Students know the characteristics that distinguish plant cells from animal cells, including chloroplasts and cell walls.®</li> <li>7.1.c Students know the nucleus is the repository for genetic information in plant and animal cells.® ©</li> <li>7.1.e Students know cells divide to increase their numbers through a process of mitosis, which results in two daughter cells with identical sets of chromosomes. ©</li> <li>7.2.b Students know sexual reproduction produces offspring that inherit half their genes from each parent.</li> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and</li> </ul>	None	Mitosis: P. 152-156  Meiosis: P. 188-191
<b>8</b> Oct. 18		conclusions drawn from the scientific evidence. ® <b>©</b> 7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure).®  7.7.e Communicate the steps and results from an investigation in written reports and oral presentations.®			



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<b>9</b> Oct. 25	animal cells, including chloroplasts and cell walls.®  7.1.d Students know that mitochondria liberate energy for the work that cells do and that chloroplasts capture sunlight energy for photosynthesis.®   7.2.a. Students know the differences between the life cycles and reproduction methods of sexual and asexual organisms.®   7.5.a. Students know plants and animals have levels of organization for structure and function, including	None	Plant Characteristics: P. 360-361  Plant Structures: P. 374-380  Seeds: P. 368-369	
<b>10</b> Nov. 1	Flowering Plants	cells, tissues, organs, organ systems, and the whole organism.®  7.5.f Students know the structures and processes by which flowering plants generate pollen, ovules, seeds, and fruit.  7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.®  7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure).®		Angiosperms P. 372-373



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Week  Date	Topic	CA Standards	SEPUP Issues & Life Science	Text Holt 2007
<b>11</b> <i>Nov.</i> 8		information in plant and animal cells.® ©  7.1.e Students know cells divide to increase their numbers through a process of mitosis, which results in two daughter cells with identical sets of chromosomes.® ©  7.2.a. Students know the differences between the life cycles and reproduction methods of sexual and asexual organisms. ©  7.2.b Students know sexual reproduction produces offspring that inherit half their genes from each parent. ®  7.2.c. Students know an inherited trait can be determined by one or more genes. ©  7.2. d. Students know plant and animal cells contain many thousands of	Genetics: 54 - Investigating Human Traits P. D1-D15 Students investigate traits for six human characteristics to begin a discussion of human variation and heredity.  55 - Plants Have Genes, Too! P. D17-D23 Students germinate seeds that are the offspring of plants bred from true-breeding green and pale yellow strains of flowering tobacco. [use in Investigation 62]	Mendel: P. 174-179  Dominant/Recessive Traits P. 177  Mendel's Experiments: P. 178  Genes/Alleles P. 180
<b>12</b> <i>Nov. 15</i>	Heredity	different genes and typically have two copies of every gene. The two copies (or alleles) of the gene may or may not be identical, and one may be dominant in determining the phenotype while the other is recessive. •  7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence. •  7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of	56 – Joe's Dilemma P. D25-D33 Students are introduced to the issue of genetic testing through a story about a student who supects he may have inherited a genetic syndrome (the Marfan syndrome).  57 – Reproduction P. D35-D41	Phenotype: P. 180  Genotype: P. 181-183  Traits: P. 184-185
13 Nov. 22 (Thanksgiving)	Earth's plates and cell structure).® 7.7.e Communicate the steps and results from an investigation in written reports and oral presentations.®  Earth's plates and cell structure).®  i i i i i i i i i i i i i i i i i i i	Asexual and sexual reproduction are introduced. Differences between the two prepare students to understand the mechanisms of heredity in sexually reproducing organisms.  58 – Creature Features P. D43-D61 Students develop hypotheses to explain the behavior of genes in a story about zoo scientists breeding imaginary creatures. They use models to evaluate how well the hypotheses fit additional evidence about the critter offspring.	Asexual Reproduction P. 54, 152-153, 402, 427, Sexual Reproduction P. 189-192	



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7.1.c Students know the nucleus is the repository for genetic information in plant and animal cells. © •  7.1.e Students know cells divide to increase their numbers through a process of mitosis, which results in two daughter cells with identical sets of chromosomes. © •	<b>59 – Gene Combo</b> P. D63-D75	<b>DNA Structure:</b> P. 208-213
<ul> <li>7.2.b Students know sexual reproduction produces offspring that inherit half their genes from each parent. ®</li> <li>7.2.c Students know an inherited trait can be determined by one or more genes.® ©</li> <li>7.2.d Students know plant and animal cells contain many thousands of different genes and typically have two copies of every gene. The two copies (or alleles) of the gene may or may not be</li> </ul>	by Mendel in his analysis of pea plant corsses	Genes: P. 214-217  Mitosis: P. 152-156  Meiosis: P. 188-191
7.7.a Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data.®  7.7.c Communicate the logical connection among hypotheses,	61 – Gene Squares P. D85-D95 Students use Punnett squares to predict the approximate frequencies of traits among offspring of specific critter crosses. 62 – Analyzing Genetic Data P. D97-D103 (Uses data from Inv. 55) Students quantify the results of the seeds they germinated in Activity 55. They then compare	Phenotype: P. 180  Genotype: P. 183
conclusions drawn from the scientific evidence. ® <b>©</b> 7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure). ®	<ul> <li>63 – Show Me the Genes!</li> <li>P. D105-D110</li> <li>A reading describes the behavior of chromosomes during sexual reproduction and it's consistency with basic patterns of inheritance.</li> <li>64 – Nature and Nurture (Optional)</li> <li>P. D111-D121</li> <li>Students design an experiment to investigate the effect of the environment on the development of</li> </ul>	
	7.2.d Students know plant and animal cells contain many thousands of different genes and typically have two copies of every gene.  The two copies (or alleles) of the gene may or may not be identical, and one may be dominant in determining the phenotype while the other is recessive.  The two copies (or alleles) of the gene may or may not be identical, and one may be dominant in determining the phenotype while the other is recessive.  The two copies (or alleles) of the gene may or may not be identical, and one may be dominant in determining the phenotype while the other is recessive.  The two copies (or alleles) of the gene may or may not be identical, and is located in the chromosomes of each cell.  The two copies (or alleles) of the gene may or may not be identified to be genetic material of living organisms and is located in the chromosomes of each cell.  The two copies (or alleles) of the gene may or may not be identified to be genetic material of living organisms and is located in the chromosomes of each cell.  The two copies (or alleles) of the gene may or may not be identified by the genetic may not be genetic material of living organisms and is located in the chromosomes of each cell.  The two copies (or alleles) of the gene may or may not be identified by the genetic may not be genetic material of living organisms and is located in the chromosomes of each cell.  The two copies (or alleles) of the gene may or may not be identified by the genetic may not be iden	7.2.c Students know an inherited trait can be determined by one or more genes. ©  7.2.d Students know plant and animal cells contain many thousands of different genes and typically have two copies of every gene. The two copies (or alleles) of the gene may or may not be identical, and one may be dominant in determining the phenotype while the other is recessive. ©  7.2.e. Students know DNA (deoxyribonucleic acid) is the genetic material of living organisms and is located in the chromosomes of each cell. ©  7.7.a Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data. ©  7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence. ©  7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure). ®  7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure). ®  7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure). ®  7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure). ®  7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure). ®  7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure). ®  7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure). ®  7.7.d Construct scale models, map



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<b>17</b> Jan. 10		<ul> <li>7.2.b Students know sexual reproduction produces offspring that inherit half their genes from each parent. ®</li> <li>7.2.c. Students know an inherited trait can be determined by one or more genes. ® ©</li> <li>7.2. d. Students know plant and animal cells contain many thousands of different genes and typically have two copies of every gene. The two copies (or alleles) of the gene may or may not be identical, and one may be dominant in determining the phenotype while the other is recessive. ® ©</li> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence. ® ©</li> <li>7.7.d Construct scale models maps, and appropriately labeled diagrams to</li> </ul>	65 – Breeding Critters – More Traits P. D123-D131 Students model the diversity of offspring possible from two parents and discover patterns of inheritance. 66 – Patterns in Pedigrees P. D133-D155 Students investigate the behavior of genes for human traits. Pedigrees are introduced as another way to study genes.	Meiosis and Inheritance P. 192-193  Hemophilia P. 507
<b>18</b> Jan. 18	Inheritance	scientific evidence. ® <b>©</b> 7.7.d Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., cell structure). ®	67 – What Would You Do? P. D157-D167 Students return to Joe's dilemma (Inv. 56) and consider whether he should be tested for the Marfan syndrome.	
<b>19</b> Jan. 24		End of Semest	ter	



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<b>20</b> Feb. 1	Fossils Geologic Time	<ul> <li>7.3.a Students know both genetic variation and environmental factors are causes of evolution and diversity of organisms.  </li> <li>7.4.a Students know Earth processes today are similar to those that occurred in the past and slow geologic processes have large cumulative effects over long periods of time.</li> <li>7.4.e Students know fossils provide evidence of how life and environmental conditions have changed.</li> <li>7.4.g Students know how to explain significant developments and extinctions of plant and animal life on the geologic time scale.</li> <li>7.5.a Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism. </li> <li>©</li> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence. </li> </ul>	Evolution:  90 – Figuring Out Fossils P. F13-F25 Students handle and describe eight different fossils from various localities and geologic ages. They are briefly introduced to the geologic time scale.  91 – Fossilized Footprints P. F27-F35 Students interpret fossilized footprint evidence that is presented to them in stages and develop skills at distinguishing observations from inferences.  92 – Time for Change P. F37-F49 Students develop geologic-style personal time scale and then construct a geologic time scale.	Types of Fossils P. 264-266 Fossil Record P. 267-269 Paleontology P. 237 Rock Cycle P. 238-239 Principal of Superposition P. 240 Absolute Dating P. 246-249 Plate Tectonics P. 270-271 Continental Drift P. 272-274 Geologic Time Scale P. 276-282
<b>21</b> Feb. 7	Geologic Time Darwin	<ul> <li>7.4.a Students know Earth processes today are similar to those that occurred in the past and slow geologic processes have large cumulative effects over long periods of time.</li> <li>7.4.e Students know fossils provide evidence of how life and environmental conditions have changed.</li> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.</li> <li>T.2.c. Students know an inherited trait can be determined by one or more genes.</li> <li>T.3.a Students know both genetic variation and environmental factors are causes of evolution and diversity of organisms.</li> <li>T.3.b Students know the reasoning used by Charles Darwin in reaching his conclusion that natural selection is the mechanism of evolution.</li> <li>T.3.e Students know that extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient for its survival.</li> </ul>	93 – Reading the Rocks P. F51-F61 Students examine four drill cores and use evidence to create stratigraphic column. They use the evidence to construct a timeline showing the relative time spans of each species.  94 – A Meeting of Minds P. F63-F73 Students role-play an imaginary meeting between Darwin and Lamarck, presenting and comparing their theories on how evolution occurred.	Index Fossils P. 268-269  Principal of Superposition P. 240  Geologic Time Scale P. 276-282  Darwin P. 306-311  Natural Selection P. 310-315



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<b>22</b> Feb. 14		<ul> <li>7.2.c Students know an inherited trait can be determined by one or more genes.® •</li> <li>7.3.a Students know both genetic variation and environmental factors are causes of evolution and diversity of organisms. •</li> <li>7.3.b Students know the reasoning used by Charles Darwin in reaching his conclusion that natural selection is the mechanism of evolution. •</li> <li>7.3.e Students know that extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient for its survival.</li> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence. •</li> </ul>	95 – Hiding in the Background P. F75-F83 Students simulate the effect of prey coloration on predation rates by birds using toothpicks of two colors. They investigate the effect of environment and the role of predation in the process of natural selection.	Species P. 298-299  Darwin P. 306-311  Natural Selection P. 310-315  Branching diagram P. 301  Fossils
23 Feb. 22	Natural Selection	<ul> <li>7.2.c Students know an inherited trait can be determined by one or more genes.® ©</li> <li>7.3.a Students know both genetic variation and environmental factors are causes of evolution and diversity of organisms. ©</li> <li>7.3.b Students know the reasoning used by Charles Darwin in reaching his conclusion that natural selection is the mechanism of evolution. ©</li> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.® ©</li> </ul>	96 – Battling Beaks P. F85-F95 Students simulate the effect of natural selection on an imaginary forkbird species. St the end of the activity, the class discusses the role of variation in the process of natural selection.	P. 300  Comparing organisms P. 304  Extinction P. 278, 316-317
rev. 22		<ul> <li>7.2.c Students know an inherited trait can be determined by one or more genes. ©</li> <li>7.3.b Students know the reasoning used by Charles Darwin in reaching his conclusion that natural selection is the mechanism of evolution. ©</li> <li>7.3.e Students know that extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient for its survival.</li> <li>7.4.g Students know how to explain significant developments and extinctions of plant and animal life on the geologic time scale.</li> </ul>	97 – Origins of Species P. F97-F103 Students read about how mutatins provide genetic variation including Darwin's observation of finches in the Galapagos Islands and the enormous diversity of cichlids in Lake Victoria and how they provide examples of speciation.	



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<b>24</b> Feb. 28	Evolution	<ul> <li>7.4.b Students know the history of life on Earth has been disrupted by major catastrophic events, such as major volcanic eruptions or the impacts of asteroids.</li> <li>7.4.d Students know that evidence from geologic layers and radioactive dating indicates Earth is approx. 4.6 billion years old and that life on this planet has existed for more than 3 billion years.</li> <li>7.4.g Students know how to explain significant developments and extinctions of plant and animal life on the geologic time scale.</li> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.</li> <li>©</li> <li>7.3.c Students know how independent lines of evidence from geology, fossils, and comparative anatomy provide the bases for the theory of evolution.</li> <li>©</li> <li>7.3.d. Students know how to construct a simple branching diagram to classify living groups of organisms by shared derived characteristics and how to expand the diagram to include fossil organisms.</li> <li>7.3.e Students know that extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient for its survival.</li> <li>7.4.e Students know fossils provide evidence of how life and environmental conditions have changed.</li> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.</li> <li>©</li> </ul>	98 – Family Histories P. F105-F119 Students draw and compare double bar graphs showing changes in the numbers of fossil families over geological time. They can conclude that both speciation and extinction have occurred in all classes of vertebrates through geologic time. Class discusses how this evidence provides further support for a branching model of evolution.  99 – A Whale of a Tale P. F121-F137 Students investigate how fossil history provides another line of evidence for evolution. They compare the skeleton of a living whale to fossils of its extinct ancestors.	Branching diagram P. 301  Geologic Time P. 276-277  Extinction P. 278, 316-317



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Week Date	Topic	CA Standards	SEPUP Issues & Life Science	Text Holt 2007
25 Mar. 7	Genetic Variation	<ul> <li>7.3.a Students know both genetic variation and environmental factors are causes of evolution and diversity of organisms. ©</li> <li>7.3.c Students know how independent lines of evidence from geology, fossils, and comparative anatomy provide the bases for the theory of evolution. ©</li> <li>7.3.d. Students know how to construct a simple branching diagram to classify living groups of organisms by shared derived characteristics and how to expand the diagram to include fossil organisms.</li> <li>7.3.e Students know that extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient for its survival.</li> <li>7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.® ©</li> <li>7.3.a Students know both genetic variation and environmental factors</li> </ul>	mental factors ms. © e from geology, es for the theory ing diagram to ived include fossil  when the stics of a species otheses, science onclusions  100 – DNA: The Evidence Within  P. F139-F163  Students reexamine classification from an evolutionary perspective. They compare DNA sequences from a number of vertebrates.	Comparing DNA P. 304  Extinct Organisms P. 336  Mammoths P. 265
Mar. 7	Extinction	are causes of evolution and diversity of organisms.  7.3.e Students know that extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient for its survival. 7.4.g Students know how to explain significant developments and extinctions of plant and animal life on the geologic time scale. 7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.  7.7.c Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.	P. F165-F179  Students read brief case studies of the dodo bird and the pigeon. They discuss the reasons these closely related bird species have such contrasting recent evolutionary histories.  Student reconsider the trade-offs involved in trying to re-create an extinct species, such as the dodo or the mammoth.	



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<b>26</b> Mar. 14	Body Organization	<ul> <li>7.2.e. Students know DNA (deoxyribonucleic acid) is the genetic material of living organisms and is located in the chromosomes of each cell.®</li> <li>7.5.a Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism.®</li> <li>T.5.b Students know organ systems function because of the contributions of individual organs, tissues, and cells. The failure of any part can affect the entire system.</li> </ul>	Body Works: 12 – What's Happening Inside?  Students learn about major organs and systems in the human body.	Body Organization P. 466-468  Organ Systems P. 469-471
27 Mar. 21 28 Mar. 28	Bones Muscles	<ul> <li>7.5.a Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism.®</li> <li>①</li> <li>7.5.c Students know how bones and muscles work together to provide a structural framework for movement. ②</li> <li>7.6.h Students know how to compare joints in the body (wrist, shoulder, thigh) with structures used in machines and simple devices (hinge, ball-and-socket, and sliding joints).</li> <li>7.6.i Students know how levers confer mechanical advantage and how the application of this principle applies to the musculoskeletal system.</li> </ul>	16 – Support System: Bones, Joints and Muscles  Students explore the structure and function of bones, joints and muscles as they dissect a chicken wing.	Skeletal System P. 472-473  Joints P. 474  Muscular System P. 476-477  Levers P. 478-479
		Spring Break		



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		7.5.a Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism. © © 7.5.b Students know organ systems function because of the	17 – Gas Exchange Explores the role of the respiratory system in the regulation of gases in the blood.	Circulatory System P. 496-501 Blood
<b>29</b> <i>Apr. 11</i>		contributions of individual organs, tissues, and cells. The failure of any part can affect the entire system.®	18 – Circulation Game Students model the path of blood as it travels through the human circulatory system.	P. 502-507
1		7.6.j Students know that contractions of the heart generate blood pressure and that heart valves prevent backflow of blood in the circulatory system. •	19 – Heart-ily Fit Students collect data on their heart rates by measuring their pulses before and after exercise.	Respiratory System P. 508-511
			21 – Inside a Pump Mechanical pumps serve as potential models for the human heart.	
20	n i i		22 – The Heart – A Muscle Students evaluate the strength of the heart muscle	
<b>30</b> Apr. 18	Respiration Circulation		23 – Heart Parts Students compare models and diagrams to real structures as they investigate the functions of the blood vessels and major structure of the heart.	
			24 – Round and Round Students model how the heart pumps blood to the lungs and the rest of the body.	
			26 – Heart Sounds An audiotape of normal and abnormal heart sounds are used to illustrate the relationship of the sounds of the heart cycle & heart problems.	
<b>31</b> Apr. 25			27 – The Pressure's On Students investigate the effects of high blood pressure.	
			28 – Heart Problems Students read about high blood pressure, heart disease, and heart attacks.	



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Week Date	Topic	CA Standards	SEPUP Issues & Life Science	Text Holt 2007
		Weeks 31-35 Apr. 26 - May 24 CST TESTING WINDOW.	No SCIENCE CST for 7th grade.	
<b>32</b> <i>May</i> 2	Ear	<ul> <li>7.5.a Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism.®  </li> <li>To.5.b Students know organ systems function because of the contributions of individual organs, tissues, and cells. The failure of any part can affect the entire system.®</li> <li>7.5.g Students know how to relate the structures of the eye and ear to their functions.</li> </ul>	None	Ear and hearing P. 538-539
<b>33</b> <i>May</i> 9	Eye Light & Living Things	<ul> <li>7.5.a Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism.®  </li> <li>T.5.g Students know how to relate the structures of the eye and ear to their functions.</li> <li>7.6.a Students know visible light is a small band within a very broad electromagnetic spectrum.</li> <li>7.6.b Students know that for an object to be seen, light emitted by or scattered from it must be detected by the eye.</li> <li>7.6.c Students know light travels in straight lines if the medium it travels through does not change.</li> <li>7.6.d Students know how simple lenses are used in a magnifying glass, the eye, a camera, a telescope, and a microscope.</li> <li>7.6.e Students know that white light is a mixture of many wavelengths(colors) and that retinal cells react differently to different wavelengths.</li> <li>7.6.f Students know light can be reflected, refracted, transmitted, and absorbed by matter.</li> <li>7.6.g Students know the angle of reflection of a light beam is equal to the angle of incidence.</li> </ul>	None	Eye and sight P. 536-537  Electro-magnetic spectrum P.76-81  Visible light P. 78-79  Reflection P. 82-88  Refraction P. 90-91  Lenses P. 92-96



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Week  Date	Topic	CA Standards	SEPUP Issues & Life Science	Text Holt 2007
<b>34</b> <i>May 16</i>	Human Reproduction	<ul> <li>7.1.f Students know that as multi-cellular organisms develop, their cells differentiate.®</li> <li>7.5.a Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism.®</li> <li>①</li> <li>7.5.d Students know how the reproductive organs of the human female and male generate eggs and sperm and how sexual activity may lead to fertilization and pregnancy.</li> <li>7.5.e Students know the function of the umbilicus and placenta during pregnancy.</li> </ul>	None	Reproductive organs P. 556-557  Fertilization P. 558  Pregnancy P. 562-565
<b>35</b> <i>May 23</i>				
<b>36</b> <i>May 31</i>				



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Week  Date	Topic	CA ED CODE	Title, posters, videos & test	Lesson	
Date		Project Alert Notebook and Support Materials  ED CODE SECTION 51260-51269  51260.(a) Instruction shall be given in the elementary and secondary schools by appropriately trained instructors on drug education and the effects of the use of tobacco, alcohol, narcotics, dangerous drugs, as defined in Section 11032 of	Motivating Resistance to Drugs Poster: 12 Test – "Advanced Quiz - How Much Do You Know About Drugs? (Booster Lesson 1 - P 1.40-1.43)	Booster Lesson 1	
37	the Health and Safety Code, and other dangerous substances.  For purposes of this chapter, an "appropriately trained instructor" is one who, based upon the determination of the site administrator, demonstrates competencies in interacting in a positive manner with children and youth; demonstrates knowledge of the properties and effects of tobacco, alcohol, narcotics, and dangerous drugs; and who demonstrates skills in conducting affective education, which include methods and techniques for helping children and youth to freely express ideas and opinions in a responsible manner and to gain an awareness of their values as they affect decisions related to drug use and misuse.  In grades 1 through 6, instruction on drug education should be conducted in		Practice Resisting External and Internal Pressures Poster: 9 Video: Paul's Fix	Booster Lesson 2	
	conjunction with courses give 51210.  In grades 7 to 12, inclusive, in conjunction with courses gi pursuant to Section 51220.  Such instruction shall be see students at their respective gra	In grades 7 to 12, inclusive, instruction on drug education shall be conducted in conjunction with courses given on health or in any appropriate area of study pursuant to Section 51220.  Such instruction shall be sequential in nature and suited to meet the needs of students at their respective grade level.  Contact SAUSD Safe & Drug Free Schools (Ext. 75739) for training	Benefits of Resisting Drugs Poster: 9 Video: Resisting Peer Pressure	Booster Lesson 3	
<b>38</b> Jun. 13	End of Semester				