

## Correlation to Connecticut Core Science Curriculum Framework

### *CPO Science Life Science*

### Student Text and Investigation Manual

Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page		
C.04 6	Matter and Energy in Ecosystems	An ecosystem is composed of all the populations that are living in a certain space and the physical factors with which they interact.	Describe how abiotic factors, such as temperature, water and sunlight, affect the ability of plants to create their own food through photosynthesis.	46	concept of photosynthesis—how plants use energy	20	photosynthesis
				85	concept of photosynthesis and how plants get energy	46	concept of photosynthesis
				89	concept of photosynthesis and how plants use energy	94	photosynthesis
				148	concept of photosynthesis		
				162	concept of photosynthesis—how plants use energy		
				167	concept of photosynthesis—how plants use energy		
				171	concept of photosynthesis		
				172	concept of photosynthesis		
				180	concept of photosynthesis—how bacteria use energy		
				322	concept of photosynthesis		
				333	concept of photosynthesis and how plants make energy		
				334	concept of photosynthesis		

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page	
C.05 6	Matter and Energy in Ecosystems	An ecosystem is composed of all the populations that are living in a certain space and the physical factors with which they interact.	Explain how populations are affected by predator-prey relationships.	73 74 76 77 86 89 89 93 94 95	37	concept of producer and consumer

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				98	
				concept of producers and consumers and decomposers	
				102	
				producers and consumers	
				270	
				general factors regulating populations in an area	
				277	
				use the concepts of consumers in ecosystem	
				278	
				concept of consumer	
				299	
				producers and consumers	
				317	
				factors that regulate populations	

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page	
C.06 6	Matter and Energy in Ecosystems	An ecosystem is composed of all the populations that are living in a certain space and the physical factors with which they interact.	Describe common food webs in different Connecticut ecosystems.	85	how energy flows through an ecosystem	37 food webs
				86	common ecological relationships	
				87	how energy flows in an ecosystem	
				88	explain how energy flows in an ecosystem	
				90	ecological relationships—food chain	
				90	how matter and energy flow in an ecosystem	
				91	food web and food chain	
				91	explain how energy gets transferred in an ecosystem	
				92	food webs	
				93	food webs and food chains	
				94	common ecological relationships—symbiosis and predator-prey	
				102	food webs	
				103	food web	
				182	common ecological relationships—symbiosis	
183	common ecological relationships					

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				231 describe common ecological relationships	
				299 how energy flows in an ecosystem	
				299 food chain	
				313 common ecological relationships—symbiosis	
				316 symbiosis	
				317 ecological relationships	
				344 ecological relationships	
				346 common ecological relationships	
				361 explain how matter and energy flow in ecosystems	

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page		
C.15 7	Structure and Function	Many organisms, including humans, have specialized organ systems that interact with each other to maintain dynamic internal balance.	Describe the basic structures of an animal cell, including nucleus, cytoplasm, mitochondria and cell membrane, and how they function to support life.	34	different kinds and functions of cells	39	cell structure and function
				136	different function of cells	40	differences in plant and animal cells
				137	difference between plant and animal cells	41	structure of a cell
				139	cell structures and functions of structures	41	plant vs. animal cells
				140	concept of nucleus	42	structure of a cell
				142	structure and function of cell parts	42	plant vs. animal cells
				142	concept of nucleus	54	differences in plant and animal cells
				142	mitochondria and chloroplasts		
				143	structure and function of cell organelles		
				143	mitochondria and what they do		
				144	cell structures and what they do		
				144	concept of nucleus		
				145	mitochondria and their function		
				145	cell structures and what they do		
				146	cell structures and their functions		
				147	concept of chloroplasts		

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				148	
				concept of chloroplast and what it does	
				153	
				structure and function of a cell	
				153	
				concept of nucleus	
				154	
				differences in plant and animal cells	
				156	
				structure of the cell membrane	
				159	
				structure of a cell—membrane	
				164	
				concept of chloroplast	
				165	
				concept of mitochondria	
				167	
				concept of chloroplasts	
				171	
				structures and function of cell parts	
				172	
				concept of the mitochondria	
				175	
				structure of protozoan cells and their functions	
				178	
				structure of a cell and function of organelles	
				181	
				concept of mitochondria	
				185	
				structures of cells and their functions—membrane	
				198	
				nucleus	

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				198 mitochondria	
				200 concept of nucleus	
				248 nucleus	
				248 mitochondria	
				249 mitochondria	
				277 different kinds and functions of cells	
				277 different kind of cells—plants and animals	
				313 different kinds of cells	
				314 nucleus	
				322 nucleus	
				353 structure of cells	
				412 mitochondria	

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page		
C.16 7	Structure and Function	Many organisms, including humans, have specialized organ systems that interact with each other to maintain dynamic internal balance.	Describe the structures of the human digestive, respiratory and circulatory systems, and explain how they function to bring oxygen and nutrients to the cells and expel waste materials.	28	basic life processes	43	life processes of a cell—osmosis and diffusion
				29	life processes	45	life processes of a cell
				32	life processes	48	life processes of cells—food
				41	life processes	49	life processes of cells
				69	general interactions of human systems	106	interaction of systems
				138	cell processes—reproduction	106	heart and circulatory system
				150	describing functions of immune system	107	heart and circulatory system
				157	cellular processes—diffusion	109	heart and circulatory system
				158	life processes of cells—osmosis	110	heart and circulatory system
				159	life processes of cells—active and passive transport	111	heart and circulatory system
				160	cell processes	114	comparing body to simple machines
				161	life processes of cells	115	joints compared to levers
				165	life processes—respiration		
				166	life processes respiration and photosynthesis		
				167	life processes of cells		
				168	animal cells and tissues and organs		
				171	cell life processes		

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				172	
				life functions of cells—diffusion and osmosis	
				174	
				life processes of cells—food	
				175	
				life processes of cells	
				176	
				life processes of cells	
				180	
				life processes of cells	
				181	
				life processes of cells—respiration	
				183	
				processes of cells—respiration	
				186	
				general function of human systems	
				187	
				concept of human systems—immune system	
				192	
				life processes of cells	
				196	
				basic cell processes—reproduction	
				198	
				basic life function of cells—reproduction and growth	
				199	
				basic cell functions—reproduction	
				243	
				lungs and digestive system	
				246	
				general functions of systems	

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				357	
					describe the general function of systems
				366	
					describe functions of major body systems
				367	
					interactions and structures of major body systems
				374	
					organs
				375	
					organs
				386	
					circulatory systems
				386	
					life processes of cells
				386	
					cells and tissues
				387	
					heart
				388	
					circulatory system
				388	
					general function of circulatory system
				389	
					circulatory system
				389	
					general function of circulatory system
				390	
					general function of circulatory system
				390	
					heart and circulatory system
				391	
					general function or respiratory system
				392	
					circulatory system and heart

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				392	
				gross anatomy—heart and lungs	
				392	
				interactions of respiratory and circulatory system	
				393	
				circulatory system	
				393	
				interactions and functions of respiratory and circulatory system	
				394	
				how your systems work together	
				395	
				basic functions of systems and interactions	
				396	
				basic functions and interactions of systems	
				397	
				interactions between systems	
				399	
				interactions between systems and functions of each	
				400	
				general functions of systems	
				401	
				how systems work	
				408	
				interaction between systems	
				410	
				how major body systems work	
				411	
				how major systems work	

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				412	how major body systems work
				413	heart
				424	joints compared to simple machines
				430	functions of systems
				431	interactions between major body systems
				433	how major body system work
				434	interactions and workings of systems
				435	interaction of systems
				448	how systems work

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page		
C.17 7	Structure and Function	Many organisms, including humans, have specialized organ systems that interact with each other to maintain dynamic internal balance.	Explain how the human musculo-skeletal system supports the body and allows movement.	34	bones and muscles	102	muscles
				367	bones and muscles	103	muscles
				377	joints compared to simple machines		
				387	muscles		
				394	muscles		
				408	body compared to simple machine		
				408	bones and muscles		
				409	bones and muscles		
				410	bones and muscles		
				411	joints like simple machines		
				411	bones and muscles		
				412	bones and muscles		
				413	bones and muscles		
				414	bones and muscles		
				417	body compared to simple machines		
				418	comparing body to simple machines		
				419	joints compared to simple machines		
				420	bones and muscles		
				420	joints compared to simple machines		

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				421 joints compared to simple machines 424 bones and muscles	
C.21 7	Science and Technology in Society	Technology allows us to improve food production and preservation, thus improving our ability to meet the nutritional needs of growing populations.	Describe how freezing, dehydration, pickling and irradiation prevent food spoilage caused by microbes	28 basic concept of disease due to infection by virus 178 basic concept of disease due to infection by bacteria 182 concept of infection and disease due to bacteria 184 concept of disease related to infection by viruses 185 concept of diseases due to infection by viruses 186 concept of diseases from infection by virus 188 basic concept of germ theory 189 bacteria 394 idea of diseases that come from invasion of bacteria	

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page		
C.25 8	Heredity and Evolution	Reproduction is a characteristic of living systems and it is essential for the continuation of every species	Explain the similarities and differences in cell division in somatic and germ cells.	138	how cells reproduce	53	mitosis and cell cycle
				196	describe how multi-celled organisms grow by how cells reproduce	55	sexual reproduction and haploid and diploid
				199	mitosis	56	mitosis and cell division
				200	how multi-cellular organisms grow based on cell reproduction	57	sexual reproduction and meiosis
				201	how multi-celled organisms grow because of cell reproduction	58	haploid vs. diploid
				205	haploid vs. diploid cells		
				207	haploid vs. diploid		
				210	haploid vs. diploid		
				212	haploid vs. diploid		
				222	sexual reproduction and meiosis		
				239	mitosis		
				242	sexual reproduction—errors in		
				244	diploid vs. haploid		
				312	haploid vs. diploid		
				315	haploid and diploid		
				354	multi-celled organisms grow when cells divide		
354	haploid and diploid						

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
C.26 8	Heredity and Evolution	Reproduction is a characteristic of living systems and it is essential for the continuation of every species	Describe the structure and function of the male and female human reproductive systems, including the process of egg and sperm production.	205 human reproduction 208 human reproduction 243 human reproduction 308 placenta 399 human reproduction	

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page		
C.27 8	Heredity and Evolution	Reproduction is a characteristic of living systems and it is essential for the continuation of every species	Describe how genetic information is organized in genes on chromosomes, and explain sex determination in humans.	150	genes and how they interact with immune system	55	sexual reproduction and haploid and diploid
				188	genes and genetic make-up	57	sexual reproduction and meiosis
				205	haploid vs. diploid cells	58	haploid vs. diploid
				207	haploid vs. diploid	59	genes and inherited traits
				208	concept of genes and heredity	61	dominant vs. recessive traits
				210	haploid vs. diploid	62	genes and inherited traits
				212	haploid vs. diploid	63	dominance vs. recessive
				214	general idea of traits	66	genes and inherited traits
				216	inherited traits	72	inherited traits
				218	concept of genes that are dominant and recessive	73	inherited traits
				219	dominant vs. recessive and how genes affect outward appearance	74	inherited traits
				220	dominant vs. recessive genes	76	inherited traits
				221	genes and inherited traits		
				222	genes and how they are passed on		
				222	sexual reproduction and meiosis		
				225	dominant vs. recessive traits		

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				227	
					general patterns of inheritance
				228	
					patterns of genetic inheritance
				229	
					genes and inherited traits—modes of inheritance
				230	
					genes and inherited traits
				233	
					traits and genes
				234	
					traits and genes
				235	
					genes and inherited traits
				239	
					genes and heredity
				240	
					concept of genes and how they relate to DNA and heredity
				242	
					sexual reproduction—errors in
				243	
					genes and their link to heredity
				244	
					diploid vs. haploid
				250	
					human heredity
				251	
					genes and inherited traits
				268	
					inherited traits
				269	
					genetic inheritance
				271	
					genes and inherited traits
				272	
					genes and inherited traits

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
				273 genes and inherited traits 275 genes and inherited traits 311 genes and traits/dominant and recessive 312 haploid vs. diploid 315 haploid and diploid 354 haploid and diploid 438 genes and inherited traits 439 genes and inherited traits	
C.INQ.01 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Identify questions that can be answered through scientific investigation.	11 ask scientific questions 13 designing scientific experiments 16 designing scientific experiments—including asking questions	101 design experiments

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
C.INQ.02 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Read, interpret and examine the credibility of scientific claims in different sources of information.	11 revising explanations 22 connections between life science and future careers 85 evaluate claims in advertising and media for scientific merit 190 construct explanations supported by evidence	3 revising explanations based on observational evidence 19 explanation based on data 70 make explanations based on evidence 76 construct explanations backed by data 77 construct explanation based on evidence 79 explanation supported by evidence 84 explanations based on evidence 85 construct explanations based on evidence 105 explanations from experiments

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page		
C.INQ.03 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Design and conduct appropriate types of scientific investigations to answer different questions.	12	process of scientific inquiry	4	conduct scientific inquiry through laboratory experimentations—asking questions and making hypothesis
				13	steps of scientific method	5	steps of scientific method
				13	designing scientific experiments	6	plan investigative procedures including formulating a hypothesis
				14	steps of scientific method	21	scientific inquiry
				15	describing steps of scientific method	25	describe steps of the scientific method
				16	designing scientific experiments—including asking questions	45	conduct scientific inquiry through laboratory experimentation
				22	steps of scientific method	61	plan investigative procedure including making hypothesis
				26	steps of scientific method	92	plan investigative procedure including making hypothesis
				161	scientific method—including making hypothesis	101	plan a procedure including making hypothesis
				376	scientific method	101	design experiments
						108	create investigative procedures—including making hypothesis

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**Student Text and Investigation Manual**

<b>Standard #: Grade</b>	<b>Core Theme</b>	<b>Content Standards</b>	<b>Expected Performances</b>	<b>Volume One Student Text Page</b>	<b>Volume Two Investigation Manual Page</b>
					111 plan investigative procedures—including formulating hypothesis

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
C.INQ.04 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.	13 recognize control variables 26 recognizing variables in observations and experiments	4 recognizing and controlling variables in observation and experiments 5 recognizing and controlling variables 7 recognizing variables 8 recognizing and controlling variables 11 recognizing and controlling variables 21 recognizing control variables 22 recognizing variables 23 recognizing and controlling variables in experiments 24 recognizing and controlling variables in experiments 29 recognizing and controlling variables 47 recognizing and controlling variables 95 identify and control variables 106 recognize and control variables

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
					110 identify and control variables 112 controlling variables 113 controlling variables

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page		
C.INQ.05 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Use appropriate tools and techniques to make observations and gather data.	4	understanding English and metric units	1	metric units (millimeters and centimeters)
				5	understanding units for length and mass	10	balances
				5	understanding units for length and mass	35	maps
				6	length	39	microscope use
				7	measure volume of regular solid	40	microscopes
				8	know measurement of mass	48	microscope
				8	using thermometers	51	microscope
				10	volume measurements	53	microscopes
				10	length measurements	82	rulers
				25	measurements in kg	92	microscope
				25	metric and English units	93	microscope
				54	maps	94	microscope
				154	understand metric units	96	microscope
				179	use metric units of length	99	metric rulers
				183	metric length units	99	microscopes
				200	microscopes	114	force scales
		131	thermometers				
		133	metric and English rulers				
		133	understanding length measurements				
		134	metric rulers				
		134	length measurements				
		135	metric rulers				

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
					135 length measurements
					136 metric rulers
					137 temperature measuring devices
					138 thermometers
					139 measure volume of regular objects
					139 rulers
					140 volume of regular objects
					141 measure volume of regular solids
					142 measure volume of regular objects
					143 measure volume of irregular objects
					144 balances
					145 mass in kg and gm
					145 balances
					146 mass in kg and gm
					146 balances

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
C.INQ.06 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Use mathematical operations to analyze and interpret data.	402 average	3 analysis of error in measurement 30 analysis of errors in experiments 82 averaging 99 basic statistical analysis average 107 analysis of errors 113 find math rule for lever equilibrium

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
C.INQ.07 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Identify and present relationships between variables in appropriate graphs.	17 constructing a graphical model 18 making graphical model from data 19 creating graphical model from data 21 constructing graphical model from data 300 graphs	3 constructing graphical model 6 creating a graphical model from data 37 making graph from data 47 using data tables 54 constructing graphical model from data 57 making sketches and diagrams 83 evaluate graphical model 87 evaluate data from graph 87 analyze trends from data 107 create and analyze graphical model from data 153 lab notebook 154 making graphs

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
C.INQ.08 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Draw conclusions and identify sources of error.	190 construct explanations supported by evidence	3 analysis of error in measurement 19 explanation based on data 30 analysis of errors in experiments 70 make explanations based on evidence 76 construct explanations backed by data 77 construct explanation based on evidence 79 explanation supported by evidence 82 error in measurements 84 explanations based on evidence 85 construct explanations based on evidence 105 explanations from experiments 107 analysis of errors

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
C.INQ.09 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Provide explanations to investigated problems or questions.	8 proposing an explanation 11 revising explanations 12 proposing explanations 30 interpreting observations and proposing explanations 96 proposing explanations 149 posing explanations 190 construct explanations supported by evidence 300 interpret observations 434 interpret observation 434 design scientific experiments	3 revising explanations based on observational evidence 18 revise explanations 19 explanation based on data 27 interpret observations 30 interpreting observations and proposing explanations 33 identify cause and effect relationship 34 cause and effect relationships 34 interpret observations 39 interpreting observations 42 interpreting observations 44 interpreting observations and posing explanations 47 posing explanations 47 identifying cause and effect relationships 49 interpret observations and pose explanations 52 proposing explanations from data 63 interpreting observations and proposing explanations

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
					65 interpreting data and posing explanations
					70 make explanations based on evidence
					76 interpret observations
					76 construct explanations backed by data
					77 construct explanation based on evidence
					79 explanation supported by evidence
					84 explanations based on evidence
					85 construct explanations based on evidence
					90 interpreting observations and proposing explanations
					94 proposing explanations
					94 identify cause and effect relationships
					97 interpret observations
					105 explanations from experiments
					111 interpret observations and propose explanations

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
					116 interpreting observations and proposing explanations 122 posing explanations

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Standard #: Grade	Core Theme	Content Standards	Expected Performances	Volume One Student Text Page	Volume Two Investigation Manual Page
C.INQ.10 6, 7, 8	Scientific Inquiry, Literacy, Numeracy		Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.	14 lab report 16 making oral presentation of projects 82 communicating—graphically 130 communicating 130 oral report 154 communicating scientific information in written form and explaining and discussing hard to grasp concepts 154 making an oral presentation of a project 166 explaining phenomena and related ?? are made understandable through discussion 170 present results of experiments or projects 235 explaining to others 275 explaining helps to understand 346 communicate 402 explaining	6 make an oral presentation of scientific results or projects 15 written communication essential to science 15 writing up scientific results 25 making an oral presentation of scientific results 36 make oral presentation of results 37 communication is important to science 77 communicating 80 communicating results 80 make argument based on evidence 120 communicating orally is essential to science 130 formal lab report 131 lab report 131 communicating results is essential to science 132 writing up results 132 lab report 153 lab reports 154 making graphs

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<b>Standard #: Grade</b>	<b>Core Theme</b>	<b>Content Standards</b>	<b>Expected Performances</b>	<b>Volume One Student Text Page</b>	<b>Volume Two Investigation Manual Page</b>
					155 formal lab report