

STRAND	STANDARD	OBJECTIVES (What it looks like in the classroom) The learner will	# OF DAYS NEEDED FOR MASTERY	DATES TAUGHT	DATE ASSESSED	ASSESSMENT TYPE (classroom, STAR, objective, subjective, project, etc.)	RESOURCES (Materials, web sites, auto-visual, print)	LEARNING ACTIVITIES
1. Inquiry and the Nature of Science and Technology	SC8.1.1 Students will design and conduct investigations that will lead to descriptions of relationships between evidence and explanations.							
Scientific Questioning	SC8.1.1a Formulate testable questions that lead to predictions and scientific investigations	Demonstrate the steps of the scientific method in a laboratory situation	20	continuous	continuous	Performance Lab Report	Books Websites Worksheets Lab Materials	Cabbage Juice Lab Cell Membrane Lab Diffusion Lab Enzyme Lab Earthworm Lab
Scientific Investigations	SC8.1.1b Design and conduct logical and sequential investigations including repeated trials	Demonstrate the steps of the scientific method in a laboratory situation	20	continuous	continuous	Performance Lab Report	Books Websites Worksheets Lab Materials	Cabbage Juice Lab Cell Membrane Lab Diffusion Lab Enzyme Lab Earthworm Lab

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Scientific Controls and Variables	SC8.1.1c Determine controls and use dependent (responding) and independent (manipulated) variables	Demonstrate the steps of the scientific method in a laboratory situation	20	continuous	continuous	Performance Lab Report	Books Websites Worksheets Lab Materials Power Point	Cabbage Juice Lab Cell Membrane Lab Diffusion Lab Enzyme Lab Earthworm Lab
Scientific Tools	SC8.1.1d Select and use equipment appropriate to the investigation, demonstrate correct techniques	Use equipment appropriate to the investigation and demonstrate correct techniques	10	September	September	Performance Rubric	Books Websites Microscope Slides Live Specimens Measuring Tools (graduated cylinder, balance, meter tape)	Measurement Labs Microscope Drawings Worksheets
Scientific Observations	SC8.1.1e Make qualitative and quantitative observations	Make qualitative and quantitative observations	20	continuous	continuous	Performance Lab Report	Books Websites Microscope Slides Live Specimens Measuring Tools Power Point	Cabbage Juice Lab Cell Membrane Lab Diffusion Lab Enzyme Lab Earthworm Lab

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Scientific Data Collection	SC8.1.1f Record and represent data appropriately and review for quality, accuracy, and relevancy	Demonstrate the steps of the scientific method in a laboratory situation	20	continuous	continuous	Performance Lab Report	Books Websites Microscope Slides Live Specimens Measuring Tools Power Point	Cabbage Juice Lab Cell Membrane Lab Diffusion Lab Enzyme Lab Earthworm Lab
Scientific Interpretations, Reflections, and Applications	SC8.1.1g Evaluate predictions, draw logical inferences based on observed patterns/relationships, and account for non-relevant information	Demonstrate the steps of the scientific method in a laboratory situation	20	continuous	continuous	Performance Lab Report	Books Websites Microscope Slides Live Specimens Measuring Tools Power Point	Cabbage Juice Lab Cell Membrane Lab Diffusion Lab Enzyme Lab Earthworm Lab
Scientific Communication	SC8.1.1h Share information, procedures, results, and conclusions with appropriate audiences	Demonstrate the steps of the scientific method in a laboratory situation	20	continuous	continuous	Performance Lab Report	Books Websites Microscope Slides Live Specimens Measuring Tools Power Point	Cabbage Juice Lab Cell Membrane Lab Diffusion Lab Enzyme Lab Earthworm Lab
	SC8.1.1i Analyze and provide appropriate critique of scientific investigations	Demonstrate the steps of the scientific method in a laboratory situation	20	continuous	continuous	Performance Lab Report	Books Websites Microscope Slides Live Specimens Measuring Tools Power Point	Cabbage Juice Lab Cell Membrane Lab Diffusion Lab Enzyme Lab Earthworm Lab

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Mathematics	SC8.1.1j Use appropriate mathematics in all aspects of scientific inquiry	Demonstrate the steps of the scientific method in a laboratory situation	20	continuous	continuous	Performance Lab Report	Books Websites Microscope Slides Live Specimens Measuring Tools Power Point	Cabbage Juice Lab Cell Membrane Lab Diffusion Lab Enzyme Lab Earthworm Lab
1.Structure and Function of Living Systems	SC8.3.1 Students will investigate and describe the structure and function of living organisms.							
Characteristics of Life	SC8.3.1a Recognize the levels of organization in living organisms (cells, tissues, organs, organ systems).	Explain the levels of organization in living things	20	Sept.-Oct.	Sept.-Oct.	Objective	Book Website Power Point Videos Computer Textbook	Cell Model Flashcards Posters Worksheets Diagrams
Cellular Composition of Organisms	SC8.3.1b Recognize that all organisms are composed of one or many cells; that these cells must grow, divide, and use energy; and that all cells function similarly	Explain cell processes, cell division, and cell function	20	Sept.-Oct.	Sept.-Oct.	Objective Poster	Book Website Power Point Videos Explore Learning Virtual Lab Computer Textbook	Cell Model Flashcards Posters Worksheets Diagrams Explore Learning Virtual Lab

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	SC8.3.1c Recognize specialized cells perform specialized functions in multicellular organisms	Recognize specialized cells perform specialized functions	5	Sept.-Oct.	Sept.-Oct.	Objective	Book Website Videos Textbook Power Point	Videos Worksheets
	SC8.3.1d Identify the organs and functions of the major systems of the human body and describe ways that these systems interact with each other.	--covered in 6th and 7th grade Health--						
Behavior	SC8.3.1e Describe how plants and animals respond to environmental stimuli	Describe how plants and animals respond to environmental stimuli	20	Feb.-March	Feb. -March	Objective Animal Interview Explore Learning Quiz	Textbook Internet Research Computer Virtual Lab Explore Learning Gizmo Power Point	Videos Worksheets Virtual Lab Explore Learning Gizmo
2. Heredity	SC8.3.2 Students will investigate and describe the relationship between reproduction and heredity.							

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	SC8.3.2a Recognize that hereditary information is contained in genes within the chromosomes of each cell	Recognize that hereditary information is contained in genes within the chromosomes of each cell	30	Dec.-Jan.	Dec.-Jan.	Objective Explore Learning Quiz Lab Report	Worksheets Computer Ninsects Reebops Virtual Lab Explore Learning Textbook Power Point	Ninsects Reebops Virtual Lab Explore Learning Punnett Squares
	SC8.3.2.b Compare and contrast sexual and asexual reproduction	Compare and contrast sexual and asexual reproduction	30	Dec.-Jan.	Dec.-Jan.	Objective	Worksheets Brain Pop Videos Textbook Power Point	Worksheets Brain Pop Videos
3. Flow of Matter and Energy in Ecosystems	SC8.3.3. Students will describe populations and ecosystems							
Flow of Energy	SC8.3.3.a Diagram and explain the flow of energy through a simple food web	Develop and explain the flow of energy through a simple food web	30	Apr.-May	Apr.-May	Objective Explore Learning Quiz	Worksheets Textbook Videos Explore Learning Gizmo Virtual Lab Power Point	Worksheets Food Web Lab Videos Explore Learning Gizmo Virtual Lab

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	SC8.3.3.b Compare the roles of producers, consumers, and decomposers in an ecosystem	Compare the roles of producers, consumers, and decomposers in an ecosystem	30	Apr.-May	Apr.-May	Objective	Textbook Videos Power Point	Worksheets Videos
Ecosystems	SC8.3.3.c Recognize that producers transform sunlight into chemical energy through photosynthesis	Recognize that producers transform sunlight into chemical energy through photosynthesis	10	November	November	Objective Explore Learning Quiz	Textbook Flashcards Foldable Explore Learning Video Clips Worksheets Power Point	Foldable Explore Learning Video Clips Worksheets
	SC8.3.3.d Determine the biotic and abiotic factors that impact the number of organisms an ecosystem can support	Determine the biotic and abiotic factors that impact the number of organisms an ecosystem can support	10	Apr.-May	Apr.-May	Objective Explore Learning Quiz	Textbook Explore Learning Video Clips Worksheets Power Point	Explore Learning Video Clips Worksheets
	SC8.3.3.e Recognize a population is all the individuals of a species at a given place and time	Recognize a population is all the individuals of a species at a given place and time	5	Apr.-May	Apr.-May	Objective Explore Learning Quiz	Textbook Explore Learning Video Clips Worksheets Power Point	Explore Learning Video Clips Worksheets

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	SC8.3.3.f Identify symbiotic relationships among organisms	Identify symbiotic relationships among organisms	10	Apr.-May	Apr.-May	Objective Internet Research Animal Interview	Computer Internet Research Textbook Video Clips Power Point	Internet Research Animal Interview Video Worksheets
Impact on Ecosystems	SC8.3.3.g Identify positive and negative effects of natural and human activity on an ecosystem	Identify positive and negative effects of natural and human activity on an ecosystem	20	Apr.-May	Apr.-May	Objective Explore Learning Quiz	NPPD Presenter Worksheet Explore Learning Cookie Dissection Lab Textbook Computer Power Point	NPPD Presenter Worksheet Explore Learning Cookie Dissection Lab Alternative Energy Research
4. Biodiversity	SC8.3.4 Students will identify characteristics of organisms that help them survive.							
Biological Adaptations	SC8.3.4a Describe how an inherited characteristic enables an organism to improve its survival rate	Describe how an inherited characteristic enables an organism to improve its survival rate	20	Jan.-Feb.	Jan.-Feb.	Objective Explore Learning Quiz	Worksheet Explore Learning Gizmo Computer Virtual Lab Textbook Power Point	Worksheet Explore Learning Gizmo Virtual Lab

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Biological Evolution	SC8.3.4b Recognize the extinction of a species is caused by the inability to adapt to an environmental change	Recognize the extinction of a species is caused by the inability to adapt to an environmental change	20	Jan.-Feb.	Jan.-Feb.	Objective Explore Learning Quiz	Worksheet Explore Learning Gizmo Computer Virtual Lab Textbook Power Point	Worksheet Explore Learning Gizmo Computer Virtual Lab
	SC8.3.4c Use anatomical features of an organism to infer similarities among other organisms	Use anatomical features of an organism to infer similarities among other organisms	20	Jan.-Feb.	Jan.-Feb.	Objective	Textbook Power Point Video Clips Worksheets	Worksheets