

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
<b>Inquiry 8.2.1</b>	students will develop the abilities needed to do scientific inquiry	<b>Demonstrate the steps of the scientific method in a laboratory situation.</b>	<b>10</b>	Sept-May	Sept-May	<b>Performance</b>	<b>Books, Websites, Worksheets</b>	<b>Bacteria Lab Earthworm Lab Photosynthesis Lab Enzyme Lab Cell Diffusion Lab</b>
		<b>Carry out investigations using a microscope.</b>	<b>15</b>	Sept	Sept	<b>Performance</b>	<b>Books, Microscopes, Posters</b>	<b>Microscope Drawings Worksheets</b>
		<b>Construct tables and graphs from internet data.</b>	<b>10</b>	Mar	Mar	<b>Performance</b>	<b>Websites Mystery Class Data</b>	<b>Graphs Tables Data Collection</b>
<b>Physical Science 8.3.1</b>	students will develop an understanding of properties and changes of properties in matter.							
<b>8.3.2</b>	students will develop an understanding of motion							

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	and forces.							
8.3.3	students will develop an understanding of the forms of energy and how energy is transferred.							
Life Science 8.4.1	Students will develop an understanding of the structure and function in living systems.	<b>Explain the levels of organization in living things (cells, tissue, organ....) and identify the names and the functions of cell structures.</b>	<b>20</b>	<b>Sept-Oct.</b>	<b>Sept - Oct.</b>	<b>STAR</b>	<b>Books, websites, Power Point</b>	<b>Cell Diffusion Lab Cell Model Flashcards Posters Worksheets Diagrams</b>
		<b>Describe how scientists use classification systems to show relationships among living things.</b>	<b>5</b>	<b>Oct</b>	<b>Oct</b>	<b>Classroom test</b>	<b>Books, websites, Power Point</b>	<b>Worksheets Dichotomous Key</b>

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		<b>Determine the importance of bacteria, protists, and fungi in maintaining environments.</b>	<b>8</b>	<b>Nov.</b>	<b>Nov.</b>	<b>Classroom Test</b>  <b>Oral Defense</b>	<b>Books, websites, Power Point, Videos</b>	<b>Projects</b> <b>Worksheets</b>
		<b>Distinguish that plant processes are necessary for maintaining life on Earth.</b>	<b>10</b>	<b>Jan.</b>	<b>Jan.</b>	<b>Classroom Test</b>  <b>Oral Defense</b>	<b>Books, websites, PowerPoint</b>	<b>Projects</b> <b>Worksheets</b> <b>Diagrams</b> <b>Flashcards</b>
8.4.2	Students will develop an understanding of reproduction and heredity.	<b>Explain processes cells undergo to ensure survival and reproduction.</b>	<b>10</b>	<b>Nov.</b>	<b>Nov.</b>	<b>STARS</b>	<b>Books, websites, PowerPoint, Videos</b>	<b>Worksheets,</b> <b>Posters</b> <b>Diagrams</b>
		<b>Identify the factors that control the inheritance of traits in organisms.</b>	<b>20</b>	<b>Nov.-Dec.</b>	<b>Nov - Dec.</b>	<b>STARS</b>	<b>Books, websites, PowerPoint</b>	<b>Punnett Squares</b> <b>Genetics Problems</b> <b>Worksheet</b> <b>Vocabulary</b> <b>Games</b>
		<b>Evaluate the importance of advances in genetics.</b>	<b>5</b>	<b>Dec.</b>	<b>Dec.</b>	<b>Classroom Test</b>	<b>Books, websites</b>	<b>Research</b> <b>Written response</b> <b>Oral defense</b>

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		<b>Explain adaptations plants have that enable them to reproduce in specific habitats.</b>	<b>8</b>	<b>Jan.</b>	<b>Jan.</b>	<b>Classroom Test</b>	<b>Books, websites, PowerPoint</b>	<b>Worksheets Diagrams</b>
8.4.3	Students will develop an understanding of regulation and behavior.	<b>Investigate and explain how organisms' behaviors enhance their abilities to obtain and use resources, grow, and reproduce.</b>	<b>20</b>	<b>Feb.</b>	<b>Feb.</b>	<b>STARS</b>	<b>Books, websites, PowerPoint</b>	<b>Worksheets Projects Flashcards Vocab. Games</b>
		<b>Investigate and explain how an organism's behavior evolves through environmental adaptation.</b>	<b>10</b>	<b>Apr. - May</b>	<b>Apr. - May</b>	<b>STARS</b>	<b>Books, websites, PowerPoint</b>	<b>Worksheets Projects</b>
8.4.4	Students will develop an understanding of populations and ecosystems.	<b>Explore ways in which living organisms interact with their environment and with one another in many ways.</b>	<b>15</b>	<b>Apr.</b>	<b>Apr.</b>	<b>STARS</b>	<b>Books, websites, PowerPoint</b>	<b>Worksheets Projects Flashcards Vocab. Games</b>
		<b>Determine that Earth has many diverse ecosystems on land and in water and recognize the abiotic and biotic factors of each biome.</b>	<b>8</b>	<b>Apr</b>	<b>Apr</b>	<b>STARS Classroom Test</b>	<b>Books, websites, PowerPoint</b>	<b>Worsheets</b>

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		<b>Investigate and analyze the living and nonliving factors that determine the number of organisms an ecosystem can support.</b>	<b>5</b>	<b>May</b>	<b>May</b>	<b>STARS</b>	<b>Books, websites, PowerPoint</b>	<b>Worksheets Labs</b>
		<b>Recognize that many of Earth's resources are limited and identify methods of conservation.</b>	<b>10</b>	<b>May</b>	<b>May</b>	<b>STARS</b>	<b>Books, websites, PowerPoint, Videos</b>	<b>Worksheets Research project</b>
8.4.5	Students will develop an understanding of diversity and adaptations of organisms.	<b>Identify why variations in organisms are important, and explain how life forms have changed over time.</b>	<b>10</b>	<b>Nov.</b>	<b>Nov.</b>	<b>STARS</b>	<b>Books, websites, PowerPoint, videos</b>	<b>Worksheets Research project</b>
		<b>Recognize that all members of the animal kingdom have similar characteristics but different adaptations.</b>	<b>30</b>	<b>Mar.</b>	<b>Mar.</b>	<b>STARS</b>	<b>Books, websites, Power point</b>	<b>Worksheet Poster Diagrams Charts Projects</b>
Earth and Space Science 8.5.1	Students will develop an understanding of structure of the earth.							

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8.5.2	Students will develop an understanding of the earth's history.							
8.5.3	Students will develop an understanding of the earth in the solar system.							