Standard	Bloom's	Supporting Skills and Examples	Assessments	Resources
7. N.1.1.		✓ Describe societal response to major scientific	1. Daily assignments (worksheets,	Computer,
		findings or theories. (cloning, stem cell	diagrams, content reading)	textbook,
		research, biotechnology)	2. In class review of previous material	labs, video,
		$\checkmark$ Investigate important contributions to the	3. Labs	library
		advancement of science from people of	4. Computer (research, assessments,	materials,
		differing cultures, genders, and ethnicity.	virtual labs)	speakers
		♦ Examples: Louis Pasteur-disease, Rachel	5. Group and individual presentations	
		Carson-ecology, Linnaeus-classification,	6. Quiz	
		Redi-biology, Darwin-evolution, Jane	7. Test	
		Goodall-zoology		
Indicator 2.	Apply the	gkilla nagagany ta ganduat gajantifia investigati		

<b>Indicator 2:</b>	Apply th	ne skills	necessary	to	conduct scientific investigations.

Standard	Bloom's	Supporting Skills and Examples	Assessments	Resources
7. N.2.1. Students are able to conduct scientific investigations using given procedures.	Application	<ul> <li>Use appropriate supportive technologies.</li> <li>Determine the limits of accuracy inherent in a particular measuring device or procedure</li> <li>Control variables to test hypothesis by repeated trials</li> <li>Identify sources of experimental error.</li> <li>Interpret to make predictions and/or justify conclusions.</li> <li>Use research methods to investigate practical and/or personal scientific problems and questions.</li> <li>Demonstrate appropriate use of apparatus and technologies for investigations.</li> <li>Use proper safety procedures in all investigations.</li> <li>Wear appropriate attire.</li> <li>✓ Describe and demonstrate various safety factors associated with different types of scientific activity.</li> <li>✓ Analyze the benefits and potential of scientific investigations</li> <li>★ Accuracy of measuring systems</li> </ul>	<ol> <li>Daily assignments (worksheets, diagrams, content reading)</li> <li>In class review of previous material</li> <li>Labs</li> <li>Computer (research, assessments, virtual labs)</li> <li>Group and individual presentations</li> <li>Quiz</li> <li>Test</li> <li>Science Fair</li> <li>Science Olympiad</li> </ol>	Computer, textbook, labs, video, library materials, speakers

## Life Science - 7<sup>th</sup> Grade

Standard	Bloom's	Supporting Skills and Examples	Assessments	Resources
7. L.1.1. Students are able to identify basic cell organelles and their functions.	Knowledge	<ul> <li>Observe Cells with a compound microscope. (Cell membrane, cell wall, cytoplasm, vacuoles, nucleus, chloroplast, chromosomes, lysosome, ER, mitochondria, nucleoleus, nuclear membrane, ribosomes)</li> <li>Describe the function of the cell membrane to include active transport and passive transport.</li> <li>Describe of cell walls as providing support and shape</li> <li>Describe cytoplasm</li> <li>Describe vacuoles</li> <li>Describe the function of the nucleus.</li> <li>✓ DNA replication</li> <li>✓ Protein synthesis (Ribosomes)</li> <li>✓ Transcription/translation</li> <li>✓ Endoplasmic Reticulum,</li> <li>✓ Lysosome,</li> <li>✓ Chloroplasts role in photosynthesis</li> <li>✓ Mitochondria roll in respiration</li> </ul>	<ol> <li>Daily assignments (worksheets, diagrams, content reading)</li> <li>In class review of previous material</li> <li>Labs</li> <li>Computer (research, assessments, virtual labs)</li> <li>Group and individual presentations</li> <li>Quiz</li> <li>Test</li> </ol>	Computer, textbook, labs, video, library materials, speakers
7. L.1.2 Students are able to identify and explain the function of the human systems and the organs within each system	Comprehension	Identify and explain the function of • Skeletal/support • Muscular • Digestive • Respiratory • Circulatory • Reproductive systems ✓ Endocrine ✓ Immune ✓ Nervous ✓ Excretory ✓ Integumentary Systems. ★ Owl Pellet Disection	<ol> <li>Daily assignments (worksheets, diagrams, content reading)</li> <li>In class review of previous material</li> <li>Labs</li> <li>Computer (research, assessments, virtual labs)</li> <li>Group and individual presentations</li> <li>Quiz</li> <li>Test</li> </ol>	Computer, textbook, labs, video, library materials, speakers

# Indicator 1: Understand the fundamental structures, functions, classifications and mechanisms found in living things.

7. L.1.3	Application	Classify Monera, Protista, Plantae, Fungi, Animalia	1.	Daily assignments (worksheets,	Computer,
Students are				diagrams, content reading)	textbook,
able to		Introduce:	2.	In class review of previous material	labs, video,
classify		$\checkmark$ Identify and compare the basic structure and	3.	Labs	library
organisms by		function of major Taxa	4.	Computer (research, assessments,	materials,
using the		$\checkmark$ Describe the levels of organization within		virtual labs)	speakers
currently		organisms.	5.	Group and individual presentations	
recognized			6.	Quiz	
kingdoms.			7.	Test	
7. L.1.4.	Comprehension	Compare and contrast the roots, stems leaves and	1.	Daily assignments (worksheets,	Computer,
Students are		flowers of vascular and nonvascular plants		diagrams, content reading)	textbook,
able to			2.	In class review of previous material	labs, video,
describe and			3.	Labs	library
identify the			4.	Computer (research, assessments,	materials,
structure of				virtual labs)	speakers
vascular and			5.	Group and individual presentations	
non-vascular			6.	Quiz	
plants.			7.	Test	

#### Indicator 2: Analyze various patterns and products of natural and induced biological change.

Standard	Bloom's	Supporting Skills and Examples	Assessments	Resources
7. L.2.1.	Comprehension	Model the process of cell division.	1. Daily assignments (worksheets,	Computer,
Students are			diagrams, content reading)	textbook,
able to			2. In class review of previous material	labs, video,
distinguish			3. Labs	library
between			4. Computer (research, assessments,	materials,
processes			virtual labs)	speakers
involved in			5. Group and individual presentations	_
sexual and			6. Quiz	
asexual			7. Test	
reproduction.				

Standard	Bloom's	Supporting Skills and Examples	Assessments	Resources
7. L.3.1.	Application	Examples: adaptations, genetic defects, population	1. Daily assignments (worksheets,	Computer,
Students are		disturbances, over-reproduction, animal behavior,	diagrams, content reading)	textbook,
able to		flooding, global warming, oil spills, human activity.	2. In class review of previous material	labs, video,
predict the			3. Labs	library
effects of		$\checkmark$ Describe processes by which mater and	4. Computer (research, assessments,	materials,
biotic and		energy flow through an ecosystem.	virtual labs)	speakers
abiotic		Examples: photosynthesis, respiration, nitrogen	5. Group and individual presentations	_
factors on a		cycle	6. Quiz	
species'		✓ Use geospatial technologies to investigate	7. Test	
survival.		natural phenomena.		
		Examples: GPS, GIS, remote sensing		

### Indicator 3: Analyze how organisms are linked to one another and the environment.

Standard	Bloom's	Supporting Skills and Examples		Assessments	Resources
7. S.1.1. Students	Comprehension	GPS, GIS, remote sensing, agriculture	1.	Daily assignments (worksheets,	Computer,
are able to describe		and genetics, medical and bio-		diagrams, content reading)	textbook,
how science and		technology (EKG), food industry and	2.	In class review of previous material	labs, video,
technology are used		chemistry	3.	Labs	library
to solve problems in			4.	Computer (research, assessments,	materials,
different professions				virtual labs)	speakers
and businesses.			5.	Group and individual presentations	
			6.	Quiz	
			7.	Test	

#### **Indicator 1:** Analyze various implications/effects of scientific advancement within the environment and society.

#### Indicator 2: Analyze the relationship/interactions among science, technology, environment, and society.

Standard	Bloom's	Supporting Skills and Examples	Assessments	Resources
7. S.2.1. Students	Application	Missouri River dams and water needs	1. Daily assignments (worksheets,	Computer,
are able, given a		+ Exotic, invasive, endangered, threatened	diagrams, content reading)	textbook,
scenario, to predict		species of plants and animals of South	2. In class review of previous material	labs, video,
the consequences of		Dakota.	3. Labs	library
human activity on			4. Computer (research, assessments,	materials,
the local, regional,			virtual labs)	speakers
or global			5. Group and individual presentations	
environment.			6. Quiz	
			7. Test	