

MedMyst: Texas Essential Knowledge and Skills (TEKS) Correlations (grades 5-8)

The student will demonstrate an understanding of the nature of science			
Mission	Online Activity	Correlated Classroom Activities	TEKS
1	Enemy Agents Koch's Concept Germ Theory Source of Contamination	<i>Activity 1: Diary of a Disease</i> <i>Activity 2: SuperAgent</i> <i>Activity 3: Microbe Meals</i>	<i>(6.1)(7.1)(8.1) Scientific Processes. The student conducts field and laboratory investigations using safe, environmentally appropriate, and ethical practices. The student is expected to:</i> <i>(A) demonstrate safe practices during field and laboratory investigations.</i>
2	Microscope w/ Bacteria Epidemiology Infectious Agents Sirius chart Germ Theory Snow	<i>Activity 1: Disease Detectives</i> <i>Activity 2: Water Everywhere</i> <i>Activity 3: No Room for Rumors</i> <i>Activity 4: MedBay: 1cell, 2cells...</i>	<i>(6.2)(7.2)(8.2) Scientific Processes. The student uses scientific inquiry methods during field and laboratory investigations. The student is expected to:</i> <i>(A) plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology;</i> <i>(B) collect data by observing and measuring</i> <i>(C) organize, analyze, evaluate, make inferences, and predict trends from direct and indirect evidence;</i> <i>(D) communicate valid conclusions; and</i> <i>(E) construct graphs, tables, maps, and charts using tools to organize, examine and evaluate data.</i>
3	Lab with Beta - Identify Virus Jenner Jeremy's apartment Letter to Alpha	<i>Activity 1: NCDC</i> <i>Activity 2: Gummy Germs</i>	<i>(6.3)(7.3)(8.3) Scientific Processes: The student uses critical thinking and scientific problem solving to make informed decisions. The student is expected to:</i> <i>(A) analyze, review, and critique scientific explanations, including hypotheses and theories, as to their strengths and weaknesses using scientific evidence and information.</i>

The student will demonstrate an understanding of the structures and properties of matter.			
Mission	Online Activity	Correlated Classroom Activities	TEKS
1	-----	<i>Activity 3: Microbe Meals</i>	<i>(6.7)(7.7)(8.9) Scientific Concepts: The student knows that substances have physical and chemical properties. The student is expected to:</i> <i>(6.7)</i> <i>(B) classify substances by their physical and chemical properties.</i>
2	-----	-----	<i>(7.7)</i> <i>(C) recognize that compounds are composed of elements.</i> <i>(8.9)</i> <i>(A) demonstrate that substances may react chemically to form new substances;</i> <i>(C) recognize the importance of formulas and equations to express what happens in a chemical reaction.</i>
3	-----	<i>Activity 1: NCDC</i>	

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The student will demonstrate an understanding of living systems and the environment.			
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1	Body Defenders Enemy Agents Infect-O-Rama	Activity 1: Diary of A Disease Activity 2: Super Agent Activity 3: Microbe Meals	(6.5) <i>The student knows that systems combine with other systems to form a larger system. The student is expected to:</i> (B) <i>describe how the properties of a system are different from the properties of its parts.</i> (6.10)(7.9) <i>The student knows the relationship between structure and function in living systems. The student is expected to:</i> (6.10) (B) <i>determine that all organisms are composed of cells that carry on functions to sustain life; and</i> (C) <i>identify how structure complements function at different levels of organization including organs, organ systems, organisms, and populations.</i> (7.9) (A) <i>identify the systems of the human organism and describe their functions; and</i> (B) <i>describe how organisms maintain stable internal conditions while living in changing external environments.</i>
2	Infectious Agents ORS	Activity 2: Water Everywhere Activity 3: No Room for Rumors Activity 4: MedBay: 1cell, 2cells...	(6.11)(7.10) <i>The student knows that traits of a species can change through generations and that the instructions for traits are contained in genetic material of the organisms. The student is expected to:</i> (6.11) (B) <i>identify cells as structures containing genetic material</i> (7.10) (A) <i>identify that sexual reproduction results in more diverse offspring and asexual reproduction results in more uniform offspring.</i>
3	Virus Structure Jeremy's apartment	Activity 1: NCDC Activity 2: Gummy Germs Activity 3: The Body Fights Back	(8.6) <i>The student knows that interdependence occurs among living systems. The student is expected to:</i> (B) <i>identify feedback mechanisms that maintain equilibrium of systems such as body temperature, turgor pressure, and chemical reactions</i>

The student will demonstrate an understanding of Earth and space systems.			
Mission	Online Activity	Correlated Classroom Activities	TEKS
1	-----	-----	(6.14) <i>Science concepts: The student knows the structures and functions of Earth systems. The student is expected to:</i>
2	-----	Activity 2: Water Everywhere	(B) <i>identify relationships between groundwater and surface water in a watershed.</i>
3	-----	-----	