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| https://peer.tamu.edu/curriculum_modules/Water_Quality/images/teach.jpg |

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| **TEKS for Middle School Science and High School Biology** | **How the TEKS are Integrated into the Lesson** |
| **6.1A, 7.1A, 8.1A, B.1A** Demonstrate safe practices during laboratory and field investigations as outlined in Texas Education Agency approved safety standards | During the **Activity,** students will be required to use safe practices. |
| **6.1B, 7.1B, 8.1B, B.1B** Practice appropriate use and conservation of resources, including disposal, reuse, or recycling of materials | During the **Activity,** students will practice appropriate use and conservation of resources. |
| **6.2A, 7.2A, 8.2A, B.2E** Plan and implement comparative and descriptive investigations by making observations, asking well defined questions, and using appropriate equipment and technology | During the **Activity,** students will implement a comparative investigation. |
| **6.2C, 7.2C, 8.2C, B.2F** Collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers | During the **Activity,** students will collect and record data. |
| **6.2E, 7.2E, 8.2E, B.2G** Analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends | During the **Activity,** students will analyze data. |
| **6.4A,B, 7.4A,B, 8.4A,B, B.2F** The student knows how to use a variety of tools. The student will use preventative safety equipment. | Throughout the **Activity,** students will use laboratory tools and safety equipment as needed. |
| **7.12 B I**dentify the main functions of the systems of the human organism, including the circulatory, respiratory, skeletal, muscular, digestive, excretory, reproductive, integumentary, nervous, and endocrine systems | This unit describes how the skin protects the body against disease and infection. It briefly covers the structure of the integumentary system. |
| **7.13 B D**escribe and relate responses in organisms that may result from internal stimuli such as wilting in plants and fever or vomiting in animals that allow them to maintain balance | This unit describes the body’s response to various environmental hazards and the diseases caused by them. |
| **B.11A S**ummarize the role of microorganisms in both maintaining and disrupting the health of both organisms and ecosystems | In the lesson, microorganisms that cause various diseases are presented.  |

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| **Next Generation Science Standards****Disciplinary Core Ideas** | **How the NGSS are Integrated** **into the Lesson** |
| **MS-LS1.A:** **Structure and Function****MS-LS1-3** In multicellular organisms, the body is a system of multiple interacting subsystems. These subsystems are groups of cells that work together to form tissues and organs that are specialized for particular body functions. | This unit briefly covers the structure and function of the integumentary system. |

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