

**Standards**

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| **TEKS for Middle School Science** | **How the TEKS are Integrated into the Lesson** |
| **(6.8) (7.8)**The student knows that complex interactions occur between matter and energy. | Through the section on **Water, Carbon and Nitrogen cycles** students will learn the interactions between matter and energy.  Through the section on **Food Chain,** students will learn the flow of energy in all living systems including food chains and food webs.  Through the section on the **Environment,** students will identify how radiant energy from the Sun is transferred into chemical energy through the process of photosynthesis. |
| **(7.12)** The student knows that there is a relationship between organisms and the environment. | Through the section on **Food Chain,** students will identify the components of an ecosystem.  Students will also describe how organisms including producers, consumers, and decomposers live together in an environment and use the existing resources available. |
| **(8.5)**The student knows that relationships exist between science and technology. | Through the **Activity,** students will identify a problem and propose a solution. |
| **(8.6)** The student knows that interdependence occurs among all living systems. | Through the section on **Food Chain,** students will learn to describe the interactions within an ecosystem. |

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| **TEKS for Middle School Technology (Grades 6-8)** | **How the TEKS are Integrated into the Lesson** |
| **Foundations**  The student demonstrates knowledge and appropriate use of hardware components, software programs, and their connections. | Throughout the lesson, students will use terminology including, but not limited to, World Wide Web (WWW), link, Internet, Uniform Resource Locators (URLs), and web page. |
| **Foundations**  The student uses data input skills appropriate to the task. | Students will demonstrate proficient use of the mouse and keyboard, as they navigate through the lesson and related web pages. |
| **Foundations**  The student complies with the laws and examines the issues regarding the use of technology in society. | While following links on the Internet and using the World Wide Web (WWW), the student will demonstrate proper etiquette and knowledge of acceptable computer use in the classroom or lab. |
| **Solving Problems**  The student uses research skills and electronic communication, with appropriate supervision, to create new knowledge. | During the **Activity,** students will use technology in self-directed activities by sharing products for defined audiences. |