

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 1: MOTORCYCLE CRASH

<p>Project 1.1: Post-Traumatic Stress Disorder</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundations: Know the academic subject matter required for proficiency in a particular area.</i> <i>Communications: Communicate effectively both orally and in writing.</i> <i>Systems: Understand how individual roles fit into the overall health care environment.</i> <i>Employability Skills: Demonstrate key skills and maintain and upgrade those skills as needed.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Health Maintenance Practices: Understand the fundamentals of wellness and the prevention of disease processes.</i> <i>Information Technology Applications: Use information technology applications appropriate to health care settings.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use recursive writing processes when appropriate. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Express and support responses to various types of texts. • Read in order to research self-selected and assigned topics. • Produce visual representations that communicate with others. 	<p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know metabolic processes and energy transfers that occur in living organisms. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits.
---	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 1: MOTORCYCLE CRASH *(continued)*

Project 1.1: Post-Traumatic Stress Disorder <i>(continued)</i>	Project 1.2: Arterial Blood Gases
<p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical thinking skills to organize and use information acquired from a variety of sources including electronic technology. <p>United States Government Social Studies Skills</p> <ul style="list-style-type: none"> • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. <p>Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand the relationship between biology and behavior. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Develop long-term and short-term goal-setting skills for individual and community problem solving. <p>Sociology Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of scientific discoveries and technological innovations on individuals and societies. 	<p>National Health Care Cluster Foundation Standards <i>Academic Foundations: Know the academic subject matter required for proficiency in a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into the overall health care environment.</i> <i>Employability Skills: Demonstrate key skills and maintain and upgrade those skills as needed.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and build vocabulary. • Comprehend selections using a variety of strategies. • Read extensively and intensively for different purposes in varied sources. • Express and support responses to various types of texts. • Read in order to research self-selected and assigned topics. <p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Algebraic thinking and symbolic reasoning.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 1: MOTORCYCLE CRASH *(continued)*

<p>Project 1.2: Arterial Blood Gases <i>(continued)</i></p>	
<p>Foundations for Functions</p> <ul style="list-style-type: none"> • Understand how algebra can be used to express generalizations and recognize and use the power of symbols to represent situations. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Chemistry Scientific Concepts</p> <ul style="list-style-type: none"> • Know the variables that influence the behavior of gases. • Know that balanced chemical equations are used to interpret and describe the interactions of matter. • Know factors involved in chemical reactions. <p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>Psychology Social Studies Skills</p> <ul style="list-style-type: none"> • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. 	<p>Sociology Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of scientific discoveries and technological innovations on individuals and societies.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 1: MOTORCYCLE CRASH *(continued)*

<p>Project 1.3: Babinski Test</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundations: Know the academic subject matter required for proficiency in a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into the overall health care environment.</i> <i>Employability Skills: Demonstrate key skills and maintain and upgrade those skills as needed.</i> <i>Ethics: Understand accepted ethical practices.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Technical Skills: Demonstrate skills and knowledge.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. 	<p>Social Studies Psychology Social Studies Skills</p> <ul style="list-style-type: none"> • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. <p>Sociology Culture</p> <ul style="list-style-type: none"> • Understand how people develop social institutions to meet basic needs in a society.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 1: MOTORCYCLE CRASH *(continued)*

<p>Project 1.4: HIPAA Privacy Act</p> <p>National Health Care Cluster Foundation Standards <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into the overall health care environment.</i> <i>Employability Skills: Demonstrate key skills and maintain and upgrade those skills as needed.</i> <i>Legal Responsibilities: Understand legal responsibilities, limitations and implications of actions within the health care delivery setting and perform duties according to regulations, policies, laws and legislated rights of clients.</i> <i>Ethics: Understand accepted ethical practices.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Information Technology Applications: Use information technology applications required within career specialties.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use recursive writing processes when appropriate. • Use writing as a tool for learning. • Evaluate his/her own writing and the writings of others. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Read extensively and intensively for different purposes in varied sources. • Express and support responses to various types of texts. • Read in order to research self-selected and assigned topics. • Listen attentively for a variety of purposes. 	<p>Social Studies United States Government Economics</p> <ul style="list-style-type: none"> • Understand the roles played by local, state and national governments in both the public and private sectors of the U.S. free enterprise system. <p>Citizenship</p> <ul style="list-style-type: none"> • Understand the importance of the expression of different points of view in a democratic society. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. <p>Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand the dynamics of the relationships between self and others to be a contributing member of the community. • Understand that beliefs, decisions and actions have consequences. <p>Culture</p> <ul style="list-style-type: none"> • Understand the role of culture in forming the foundation and orienting framework for individuals and social behavior.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 1: MOTORCYCLE CRASH *(continued)*

Project 1.4: HIPAA Privacy Act <i>(continued)</i>	Project 1.5: Emergency Room Support Service
<p>Sociology</p> <p>Citizenship</p> <ul style="list-style-type: none"> Understand that individuals require knowledge of the dynamics of the relationships between self and others to be contributing members of the community. <p>Government</p> <ul style="list-style-type: none"> Understand how governments promote cultural values and provide for social controls. <p>History</p> <ul style="list-style-type: none"> Understand the causes and effects of social and institutional changes. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> Understand the impact of changes in science and technology on moral and ethical issues. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into the overall health care environment.</i></p> <p><i>Employability Skills: Demonstrate key skills and maintain and upgrade those skills as needed.</i></p> <p><i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. Use writing as a tool for learning. Use a variety of strategies to read unfamiliar words and to build vocabulary. Comprehend selections using a variety of strategies. Read extensively and intensively for different purposes in varied sources. Express and support responses to various types of texts. Read in order to research self-selected and assigned topics. <p>Social Studies</p> <p>United States History Since Reconstruction</p> <p>Science, Technology and Society</p> <ul style="list-style-type: none"> Understand the influence of scientific discoveries and technological innovations on daily life in the United States.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 1: MOTORCYCLE CRASH *(continued)*

Project 1.5: Emergency Room Support Service <i>(continued)</i>	Project 1.6: Brain Anatomy
<p>Social Studies Skills</p> <ul style="list-style-type: none"> Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. <p>Sociology Culture</p> <ul style="list-style-type: none"> Understand how people develop social institutions to meet basic needs in a society. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundations: Know the academic subject matter required for proficiency in a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into the overall health care environment.</i></p> <p><i>Employability Skills: Demonstrate key skills and maintain and upgrade those skills as needed.</i></p> <p><i>Information Technology Applications: Use information technology applications required within career specialties.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. Use recursive writing processes when appropriate. Use writing as a tool for learning. Use a variety of strategies to read unfamiliar words and to build vocabulary. Comprehend selections using a variety of strategies. Read extensively and intensively for different purposes in varied sources. Express and support responses to various types of texts. Read critically to evaluate texts. Read in order to research self-selected and assigned topics. Understand and interpret visual representations. Produce visual representations that communicate with others.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 1: MOTORCYCLE CRASH *(continued)*

<p>Project 1.6: Brain Anatomy <i>(continued)</i></p> <p>Mathematics Geometry Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Study properties and relationships having to do with size, shape, location, direction and orientation of figures. • Perceive the connection between geometry and the real and mathematical worlds and use geometric ideas, relationships and properties to solve problems. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know how an organism grows and how specialized cells, tissues and organs develop. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. <p>Social Studies United States Government Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the role the government plays in developing policies and establishing conditions that influence scientific discoveries and technological innovations. • Understand the impact of advances in science and technology on government and society. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. 	<p>Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand that beliefs, decisions and actions have consequences. • Understand the relationship between biology and behavior.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY

<p>Project 2.1: Nutrition Matters</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Ethics: Understand accepted ethical practices with respect to cultural, social and ethnic differences within the health care environment.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Health Maintenance Practices: Understand the fundamentals of wellness and the prevention of disease processes.</i> <i>Information Technology Applications: Use information technology applications required for appropriate health-care applications.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Comprehend selections using a variety of strategies. • Read extensively and intensively for different purposes in varied sources. • Read in order to research self-selected and assigned topics. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. 	<p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on foundation concepts from earlier grades. • Algebraic thinking and symbolic reasoning. <p>Foundations for Functions</p> <ul style="list-style-type: none"> • Understand how algebra can be used to express generalizations and recognize and use the power of symbols to represent situations. <p>Linear Functions</p> <ul style="list-style-type: none"> • Formulate systems of linear equations from problem situations, use a variety of methods to solve them and analyze the solutions in terms of the situations.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

Project 2.1: Nutrition Matters <i>(continued)</i>	Project 2.2: Body Mass Index
<p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know metabolic processes and energy transfers that occur in living organisms. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. <p>Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand that beliefs, decisions and actions have consequences. • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior. 	<p>National Health Care Cluster Foundation Skills</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Ethics: Understand accepted ethical practices with respect to cultural, social and ethnic differences within the health care environment.</i></p> <p><i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p><i>Information Technology Applications: Use information technology applications required for appropriate health-care applications.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. <p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Algebraic thinking and symbolic reasoning. • Work to set up equations and use a variety of methods to solve the equations.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

<p>Project 2.2: Body Mass Index <i>(continued)</i></p>	
<p>Foundations for Functions</p> <ul style="list-style-type: none"> • Understand how algebra can be used to express generalizations and recognize and use the power of symbols to represent situations. <p>Linear Functions</p> <ul style="list-style-type: none"> • Formulate systems of linear equations from problem situations, use a variety of methods to solve them and analyze the solutions in terms of the situations. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know metabolic processes and energy transfers that occur in living organisms. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. <p>Social Studies Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand the dynamics of the relationships between self and others to be a contributing member of the community. • Understand that beliefs, decisions and actions have consequences. • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior. 	<p>Social Studies Skills</p> <ul style="list-style-type: none"> • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

<p>Project 2.3: A1C and Diabetic Control</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Read extensively and intensively for different purposes in varied sources. • Express and support responses to various types of texts. • Understand and interpret visual representations. <p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Algebraic thinking and symbolic reasoning. • Work to set up equations and use a variety of methods to solve the equations. <p>Foundations for Functions</p> <ul style="list-style-type: none"> • Understand that a function represents a dependence of one quantity on another and can be described in a variety of ways. • Understand how algebra can be used to express generalizations and recognize and use the power of symbols to represent situations. 	<p>Linear Functions</p> <ul style="list-style-type: none"> • Formulate equations and inequalities based on linear functions, use a variety of methods to solve them and analyze the solutions in terms of the situations. <p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know how solution chemistry is a part of everyday life. <p>Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know how an organism grows and how specialized cells, tissues and organs develop. • Know metabolic processes and energy transfers that occur in living organisms. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Chemistry Scientific Concepts</p> <ul style="list-style-type: none"> • Know factors involved in chemical reactions. <p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States.
---	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

Project 2.3: A1C and Diabetic Control <i>(continued)</i>	Project 2.4: Diagnostic Lab Tests
<p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Information Technology Applications: Use information technology applications required for appropriate health-care applications.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use recursive writing processes when appropriate. • Rely increasingly on the conventions and mechanics of written English, including the rules of grammar and usage to write clearly and effectively. • Use writing as a tool for learning. • Produce visual representations that communicate with others. <p>Mathematics</p> <p>Algebra I</p> <p>Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Use function concepts to represent and model problem situations and to analyze and interpret relationships.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

<p>Project 2.4: Diagnostic Lab Tests <i>(continued)</i></p> <p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know how solution chemistry is a part of everyday life. <p>Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know metabolic processes and energy transfers that occur in living organisms. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Chemistry Scientific Concepts</p> <ul style="list-style-type: none"> • Know factors involved in chemical reactions. <p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. 	<p>Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand that beliefs, decisions and actions have consequences. • Understand the relationship between biology and behavior. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Communicate in written, oral and visual forms.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

<p>Project 2.5: Medical Educator</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use recursive writing processes when appropriate. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Comprehend selections using a variety of strategies. • Read extensively and intensively for different purposes in varied sources. • Express and support responses to various types of texts. • Read in order to research self-selected and assigned topics. • Speak clearly and effectively for a variety of purposes and audiences. • Prepare, organize and present informative and persuasive oral messages. • Produce visual representations that communicate with others. 	<p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know metabolic processes and energy transfers that occur in living organisms. <p>Social Studies United States History Since Reconstruction Citizenship</p> <ul style="list-style-type: none"> • Understand the importance of effective leadership in a democratic society. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. <p>Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand that beliefs, decisions and actions have consequences. • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

Project 2.5: Medical Educator <i>(continued)</i>	Project 2.6: Health Care Team
<p>Culture</p> <ul style="list-style-type: none"> Understand behavioral, social and cognitive perspectives of human learning. <p>Social Studies Skills</p> <ul style="list-style-type: none"> Communicate in written, oral and visual forms. Develop long-term and short-term goal-setting skills for individual and community problem solving. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p><i>Health Maintenance Practices: Understand the fundamentals of wellness and the prevention of disease processes.</i></p> <p><i>Information Technology Applications: Use information technology applications required for appropriate health-care applications.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. Use recursive writing processes when appropriate. Use writing as a tool for learning. Use a variety of strategies to read unfamiliar words and to build vocabulary. Comprehend selections using a variety of strategies. Read extensively and intensively for different purposes in varied sources. Express and support responses to various types of texts. Read in order to research self-selected and assigned topics. <p>Science</p> <p>Biology</p> <p>Scientific Processes</p> <ul style="list-style-type: none"> Use critical thinking and scientific problem solving to make informed decisions.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

<p>Project 2.6: Health Care Team <i>(continued)</i></p> <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Chemistry Scientific Concepts</p> <ul style="list-style-type: none"> • Know factors involved in chemical reactions. <p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information from a variety of sources including electronic technology. <p>Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand the dynamics of the relationships between self and others to be a contributing member of the community. • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior. <p>Culture</p> <ul style="list-style-type: none"> • Understand the dynamic relationships between self and one's environment. 	<p>Social Studies Skills</p> <ul style="list-style-type: none"> • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. • Develop long-term and short-term goal-setting skills for individual and community problem solving. <p>Sociology Culture</p> <ul style="list-style-type: none"> • Understand how people develop social institutions to meet basic needs in a society.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

<p>Project 2.7: Biohazardous Waste Material Treatment</p> <p>National Health Care Cluster Foundation Standards <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Legal Responsibilities: Understand legal responsibilities, limitations and implications of actions within the health care delivery setting and perform duties according to regulations, policies, laws and legislated rights of clients.</i> <i>Ethics: Understand accepted ethical practices.</i> <i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i> <i>Health Maintenance Practices: Understand the fundamentals of wellness and the prevention of disease processes.</i> <i>Technical Skills: Demonstrate knowledge and skills as appropriate.</i> <i>Information Technology Applications: Use information technology applications required for appropriate health-care applications.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use recursive writing processes when appropriate. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Read extensively and intensively for different purposes in varied sources. • Read in order to research self-selected and assigned topics. • Prepare visual representations that communicate with others. 	<p>Science Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know that cells are the basic structures of all living things and have specialized parts that perform specific functions, and that viruses are different from cells and have different properties and functions. • Know that interdependence and interactions occur within an ecosystem. <p>Social Studies United States Government Economics</p> <ul style="list-style-type: none"> • Understand the roles played by local, state and national governments in both the public and private sectors of the U.S. free enterprise system. <p>Citizenship</p> <ul style="list-style-type: none"> • Understand the difference between personal and civic responsibilities. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the role the government plays in developing policies and establishing conditions that influence scientific discoveries and technological innovations. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings.
---	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

Project 2.7: Biohazardous Waste Material Treatment <i>(continued)</i>	Project 2.8: Pancreas and Insulin Research
<p>Sociology</p> <p>Government</p> <ul style="list-style-type: none"> • Understand how governments promote cultural values and provide for social controls. <p>Culture</p> <ul style="list-style-type: none"> • Understand how people develop social institutions to meet basic needs in a society. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of changes in science and technology on moral and ethical issues. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Information Technology Applications: Use information technology applications required for appropriate health-care applications.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use recursive writing processes when appropriate. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Read extensively and intensively for different purposes in varied sources. • Read in order to research self-selected and assigned topics. • Prepare visual representations that communicate with others.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 2: DIABESITY *(continued)*

<p>Project 2.8: Pancreas and Insulin Research <i>(continued)</i></p> <p>Science Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know that cells are the basic structures of all living things and have specialized parts that perform specific functions, and that viruses are different from cells and have different properties and functions. • Know how an organism grows and how specialized cells, tissues and organs develop. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. <p>Social Studies United States Government Economics</p> <ul style="list-style-type: none"> • Understand the roles played by local, state and national governments in both the public and private sectors of the U.S. free enterprise system. <p>Culture</p> <ul style="list-style-type: none"> • Understand the relationship between government policies and the culture of the United States. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the role the government plays in developing policies and establishing conditions that influence scientific discoveries and technological innovations. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. 	<p>Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand that beliefs, decisions and actions have consequences. • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior. <p>Culture</p> <ul style="list-style-type: none"> • Understand behavioral, social and cognitive perspectives of human learning.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 3: STROKE VICTIM

<p>Project 3.1: Barthel Index</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use recursive writing processes when appropriate. • Rely increasingly on the conventions and mechanics of written English, including the rules of grammar and usage, to write clearly and effectively. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. • Produce visual representations that communicate with others. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Use critical thinking and scientific problem solving to make informed decisions. 	<p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. <p>Social Studies Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior. <p>Culture</p> <ul style="list-style-type: none"> • Understand the dynamic relationships between self and one’s environment. • Understand behavioral, social and cognitive perspectives of human learning. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Develop long-term and short-term goal-setting skills for individual and community problem solving.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 3: STROKE VICTIM *(continued)*

<p>Project 3.2: Clot or Blockage Simulation</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Technical Skills: Demonstrate skills and knowledge as appropriate.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Read extensively and intensively for different purposes in varied sources. • Express and support responses to varied types of texts. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. 	<p>Mathematics Geometry Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Use a variety of representations, tools and technology to solve meaningful problems by representing figures, transforming figures, analyzing relationships and proving things about them. <p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. <p>Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know metabolic processes and energy transfers that occur in living organisms. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Physics Scientific Concepts</p> <ul style="list-style-type: none"> • Know the laws of thermodynamics <p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 3: STROKE VICTIM *(continued)*

Project 3.2: Clot or Blockage Simulation <i>(continued)</i>	Project 3.3: Cardiovascular System
<p>Social Studies Skill</p> <ul style="list-style-type: none"> Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. <p>Psychology</p> <p>Culture</p> <ul style="list-style-type: none"> Understand the dynamic relationships between self and one's environment. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i></p> <p><i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. Use writing as a tool for learning. Listen attentively for a variety of purposes. Speak clearly and effectively for a variety of purposes and audiences. Understand and interpret visual representations. Produce visual representations that communicate with others. <p>Mathematics</p> <p>Geometry</p> <p>Basic Understandings</p> <ul style="list-style-type: none"> Build on the foundation concepts from earlier grades. Study properties and relationships having to do with size, shape, location, direction and orientation of figures. Perceive the connection between geometry and the real and mathematical worlds and use geometric ideas, relationships and properties to solve problems.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 3: STROKE VICTIM *(continued)*

Project 3.3: Cardiovascular system <i>(continued)</i>	Project 3.4: Chart in SOAP Format
<p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Know relationships exist between properties of matter and its components. • Know that solution chemistry is a part of everyday life. <p>Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know metabolic processes and energy transfers that occur in living organisms. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Chemistry Scientific Concepts</p> <ul style="list-style-type: none"> • Know factors involved in chemical reactions. 	<p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Legal Responsibilities: Understand legal responsibilities, limitations and implications of actions within the health care delivery setting and perform duties according to regulations, policies, laws and legislated rights of clients.</i> <i>Ethics: Understand accepted ethical practices.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Express and support responses to various texts. • Read critically to evaluate texts. <p>Science Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 3: STROKE VICTIM *(continued)*

Project 3.4: Chart in SOAP Format <i>(continued)</i>	Project 3.5: Insurance
<p>Social Studies United States Government Economics</p> <ul style="list-style-type: none"> Understand the roles played by local, state and national governments in both the public and private sectors of the U.S. free enterprise system. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> Understand the impact of advances in science and technology on government and society. <p>Social Studies Skills</p> <ul style="list-style-type: none"> Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. Communicate in written, oral and visual forms. Use problem-solving and decision-making skills, working independently and with others in a variety of settings. <p>Sociology Culture</p> <ul style="list-style-type: none"> Understand how cultural socialization, norms, values, motivation and communication influence relationships among groups. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> Understand the impact of changes in science and technology on moral and ethical issues. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Legal Responsibilities: Understand legal responsibilities, limitations and implications of actions within the health care delivery setting and perform duties according to regulations, policies, laws and legislated rights of clients.</i></p> <p><i>Ethics: Understand accepted ethical practices.</i></p> <p><i>Information Technology Applications: Use information technology applications required within a career specialty.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. Use writing as a tool for learning. Use a variety of strategies to read unfamiliar words and to build vocabulary. Express and support responses to various types of texts. <p>Biology Scientific Processes</p> <ul style="list-style-type: none"> Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 3: STROKE VICTIM *(continued)*

<p>Project 3.5: Insurance <i>(continued)</i></p> <p>Social Studies United States Government Economics</p> <ul style="list-style-type: none"> • Understand the roles played by local, state and national governments in both the public and private sectors of the U.S. free enterprise system. <p>Citizenship</p> <ul style="list-style-type: none"> • Understand the importance of voluntary individual participation in the U.S. democratic society. <p>Culture</p> <ul style="list-style-type: none"> • Understand the relationship between government policies and the culture of the United States. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the role the government plays in developing policies and establishing conditions that influence scientific discoveries and technological innovations. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. <p>Sociology Government</p> <ul style="list-style-type: none"> • Understand how governments promote cultural values and provide for social controls. <p>History</p> <ul style="list-style-type: none"> • Understand the causes and effects of social and institutional changes. 	<p>Culture</p> <ul style="list-style-type: none"> • Understand how people develop social institutions to meet basic needs in a society. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of changes in science and technology on moral and ethical issues.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 3: STROKE VICTIM *(continued)*

<p>Project 3.6: Materials Management Bid</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Information Technology Applications: Use information technology applications required within a career specialty.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Uses writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Express and support responses to various types of texts. • Produce visual representations that communicate with others. <p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Algebraic thinking and symbolic reasoning. • Use function concepts to represent and model problem situations and to analyze and interpret relationships. • Work to set up equations and use a variety of methods to solve the equations. 	<p>Foundations for Functions</p> <ul style="list-style-type: none"> • Understand that a function represents a dependence of one quantity on another and can be described in a variety of ways. • Use properties and attributes of functions. • Understand how algebra can be used to express generalizations and recognize and use the power of symbols to represent situations. <p>Linear Functions</p> <ul style="list-style-type: none"> • Formulate equations and inequalities based on linear functions, use a variety of methods to solve them and analyze the solutions in terms of the situations. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Use critical thinking and scientific problem solving to make informed decisions. <p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>United States Government Economics</p> <ul style="list-style-type: none"> • Understand the roles played by local, state and national governments in both the public and private sectors of the U.S. free enterprise system.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 3: STROKE VICTIM *(continued)*

Project 3.6: Materials Management Bid <i>(continued)</i>	Project 3.7: Lipitor and Statin Research
<p>Social Studies Skills</p> <ul style="list-style-type: none"> • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p><i>Information Technology Applications: Use information technology applications required within a career specialty.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Comprehend selections using a variety of strategies. • Read extensively and intensively for different purposes in varied sources. • Express and support responses to various types of texts. • Read critically to evaluate texts. • Read in order to research self-selected and assigned topics. • Produce visual representations that communicate with others.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 3: STROKE VICTIM *(continued)*

<p>Project 3.7: Lipitor and Statin Research</p> <p>Science Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know metabolic processes and energy transfers that occur in living organisms. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Chemistry Scientific Concepts</p> <ul style="list-style-type: none"> • Know factors involved in chemical reactions. <p>Social Studies United States Government Economics</p> <ul style="list-style-type: none"> • Understand the roles played by local, state and national governments in both the public and private sectors of the U.S. free enterprise system. <p>Citizenship</p> <ul style="list-style-type: none"> • Understand the importance of the expression of different points of view in a democratic society. <p>Culture</p> <ul style="list-style-type: none"> • Understand the relationship between government policies and the culture of the United States. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of advances in science and technology on government and society. 	<p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. <p>Sociology History</p> <ul style="list-style-type: none"> • Understand the causes and effects of social and institutional changes. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of scientific discoveries and technological innovations on individuals and societies.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 4: WEST NILE VIRUS

<p>Project 4.1: Put on a Gown, Mask and Gloves</p> <p>National Health Care Cluster Foundation Standards <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Ethics: Understand accepted ethical practice.</i> <i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Technical Skills: Demonstrate appropriate skills and knowledge.</i> <i>Information Technology Applications: Use information technology applications required within a career specialty.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Express and support responses to various types of texts. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. 	<p>Social Studies United States Government Citizenship</p> <ul style="list-style-type: none"> • Understand the importance of voluntary participation in the U.S. democratic society. <p>Culture</p> <ul style="list-style-type: none"> • Understand the relationship between government policies and the culture of the United States. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of advances in science and technology on government and society. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others in a variety of settings. <p>Sociology Government</p> <ul style="list-style-type: none"> • Understand how governments promote cultural values and provide for social controls. <p>History</p> <ul style="list-style-type: none"> • Understand the causes and effects of social and institutional changes. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of changes in science and technology on moral and ethical issues.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 4: WEST NILE VIRUS *(continued)*

<p>Project 4.2: Sedimentation Rate</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Express and support responses to different types of texts. • Read in order to research self-selected and assigned topics. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. <p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Use a variety of representations, tools and technology to model mathematical situations and to solve meaningful problems. 	<p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know relationships exist between properties of matter and its components. • Know that changes in matter affect everyday life. • Know how solution chemistry is a part of everyday life. <p>Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know that cells are the basic structures of all living things and have specialized parts that perform specific functions, and that viruses are different from cells and have different properties and functions. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Social Studies Sociology Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of scientific discoveries and technological innovations on individuals and societies.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 4: WEST NILE VIRUS *(continued)*

<p>Project 4.3: Preparing Slides</p> <p>National Health Care Cluster Foundation Standards <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Use writing as a tool for learning. • Express and support responses to a variety of texts. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that cells are the basic structures of all living things and have specialized parts that perform specialized functions, and that viruses are different from cells and have different properties and functions. • Know applications of taxonomy and identify its limitations. 	<p>United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. <p>Sociology Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of scientific discoveries and technological innovations on individuals and societies.
---	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 4: WEST NILE VIRUS *(continued)*

<p>Project 4.4: Spread of Viruses</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i> <i>Health Maintenance Practices: Understand the fundamentals of wellness and the prevention of disease processes.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. • Understand and interpret visual representations. • Analyze and critique the significance of visual representations. <p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Algebraic thinking and symbolic reasoning. • Use function concepts to represent and model problem situations and to analyze and interpret relationships. <p>Foundations for Functions</p> <ul style="list-style-type: none"> • Understand how algebra can be used to express generalizations and recognize and use the power of symbols to represent situations. 	<p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that cells are the basic structures of all living things and have specialized parts that perform specific functions, and that viruses are different from cells and have different properties and functions. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that interdependence and interactions occur within an ecosystem. <p>Social Studies United States History Since Reconstruction Government</p> <ul style="list-style-type: none"> • Understand changes in the role of government over time. <p>Citizenship</p> <ul style="list-style-type: none"> • Understand the importance of effective leadership in a democratic society. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 4: WEST NILE VIRUS *(continued)*

Project 4.4: Spread of Viruses <i>(continued)</i>	Project 4.5: Cleaning Procedures and Infection Control
<p>United States Government</p> <p>Citizenship</p> <ul style="list-style-type: none"> • Understand the difference between personal and civic responsibilities. • Understand the importance of voluntary individual participation in the U.S. democratic society. <p>Sociology</p> <p>Government</p> <ul style="list-style-type: none"> • Understand how governments promote cultural values and provide for social controls. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Ethics: Understand accepted ethical practice.</i></p> <p><i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i></p> <p><i>Health Maintenance Practices: Understand the fundamentals of wellness and the prevention of disease processes.</i></p> <p><i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Express and support responses to various types of texts. • Understand and interpret visual representations. • Analyze and critique the significance of visual representations. • Produce visual representations that communicate with others.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 4: WEST NILE VIRUS *(continued)*

<p>Project 4.5: Cleaning Procedures and Infection Control <i>(continued)</i></p> <p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Use a variety of representations, tools and technology to model mathematical situations and to solve meaningful problems. • Use problem-solving, computation in problem-solving contexts, language and communication, connections within and outside mathematics and reasoning, as well as multiple representations, applications and modeling and justification and proof. <p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know hat changes in matter affect everyday life. <p>Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know that interdependence and interactions occur within an ecosystem. <p>Social Studies Sociology Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of changes in science and technology on moral and ethical issues. 	<p>Project 4.6: Cell Behavior</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Information Technology Applications: Demonstrate use of information technology appropriate to health care applications.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Read in order to research self-selected and assigned topics. • Understand and interpret visual representations. • Analyze and critique the significance of visual representations. • Produce visual representations that communicate with others. <p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions.
--	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 4: WEST NILE VIRUS *(continued)*

Project 4.6: Cell Behavior <i>(continued)</i>	Project 4.7: Agglutination
<p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that changes in matter affect everyday life. • Know how solution chemistry is a part of everyday life. <p>Biology</p> <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that cells are the basic structures of all living things and have specialized parts that perform specific functions, and that viruses are different from cells and have different properties and functions. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. <p>Chemistry</p> <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know relationships among the concentration, electrical conductivity and colligative properties of a solution. <p>Social Studies</p> <p>United States History Since Reconstruction</p> <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of science and technology on the economic development of the United States. • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. <p>Sociology</p> <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of changes in science and technology on moral and ethical issues. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i></p> <p><i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Read extensively and intensively for different purposes in varied sources. • Express and support responses to various types of texts. • Read in order to research self-selected and assigned topics. • Understand and interpret visual representations. • Analyze and critique the significance of visual representations.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 4: WEST NILE VIRUS *(continued)*

<p>Project 4.7: Agglutination</p> <p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know relationships exist between properties of matter and its components. • Know how solution chemistry is a part of everyday life. <p>Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know that interdependence and interactions occur within an ecosystem. <p>Chemistry Scientific Concepts</p> <ul style="list-style-type: none"> • Know relationships among the concentration, electrical conductivity and colligative properties of a solution. 	<p>Social Studies United States Government Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of advances in science and technology on government and society. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. <p>Sociology Government</p> <ul style="list-style-type: none"> • Understand how governments promote cultural values and provide for social controls. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of changes in science and technology on moral and ethical issues.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 5: SPORTS INJURY

<p>Project 5.1: Physical Therapy Exercises</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Legal Responsibilities: Understand legal responsibilities, limitations and implications of actions within the health care delivery setting and perform duties according to regulations, policies, laws and legislated rights of clients.</i> <i>Ethics: Understand accepted ethical practices.</i> <i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Express and support responses to various types of text. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. 	<p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. <p>Social Studies Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior. <p>Culture</p> <ul style="list-style-type: none"> • Understand behavioral, social and cognitive perspectives of human learning. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. • Develop long-term and short-term goal-setting skills for individual and community problem solving.
---	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 5: SPORTS INJURY *(continued)*

<p>Project 5.2: Physical Fitness and Conditioning</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Ethics: Understand accepted ethical practices.</i> <i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Health Maintenance Practices: Understand the fundamentals of wellness and the prevention of disease processes.</i> <i>Information Technology Applications: Demonstrate use of information technology appropriate to health care applications.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Express and support responses to various types of texts. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences. <p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Algebraic thinking and symbolic reasoning. 	<p>Foundations for Functions</p> <ul style="list-style-type: none"> • Use the properties and attributes of functions. • Understand how algebra can be used to express generalizations and recognize and use the power of symbols to represent situations. <p>Science Biology Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. <p>Social Studies Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand that beliefs, decisions and actions have consequences. • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior. <p>Culture</p> <ul style="list-style-type: none"> • Understand behavioral, social and cognitive perspectives of human learning. • Understand the role of culture in forming the foundation and orienting framework for individuals and social behavior.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 5: SPORTS INJURY *(continued)*

<p>Project 5.2: Physical Fitness and Conditioning <i>(continued)</i></p> <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. • Develop long-term and short-term goal-setting skills for individual and community problem solving. 	<p>Project 5.3: Magnetic Concepts as They Relate to Diagnosing with MRI Technology</p> <p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Information Technology Applications: Demonstrate use of information technology appropriate to health care applications.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Comprehend selections using a variety of strategies. • Express and support responses to various types of texts. • Read in order to research self-selected and assigned topics. • Produce visual representations that communicate with others. <p>Science</p> <p>Biology</p> <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that organisms maintain homeostasis. <p>Physics</p> <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that changes occur within a physical system and recognize that energy and momentum are conserved. • Know forces in nature. • Know the characteristics and behavior of waves.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 5: SPORTS INJURY *(continued)*

<p>Project 5.3: Magnetic Concepts as They Relate to Diagnosing with MRI Technology <i>(continued)</i></p>	<p>Project 5.4: Pain Scale</p>
<p>Social Studies Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand the dynamics of the relationships between self and others to be a contributing member of the community. • Understand that beliefs, decisions and actions have consequences. • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior. <p>Culture</p> <ul style="list-style-type: none"> • Understand behavioral, social and cognitive perspectives of human learning. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. <p>Sociology Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of scientific discoveries and technological innovations on individuals and societies. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Academic Foundation: Know the subject matter required for proficiency within a particular area.</i></p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Ethics: Understand accepted ethical practices.</i></p> <p><i>Safety Practices: Understand the existing and potential hazards to clients, co-workers and self.</i></p> <p><i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p><i>Health Maintenance Practices: Understand the fundamentals of wellness and the prevention of disease processes.</i></p> <p><i>Information Technology Applications: Demonstrate use of information technology appropriate to health care applications.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use writing as a tool for learning. • Listen attentively for a variety of purposes. • Speak clearly and effectively for a variety of purposes and audiences.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 5: SPORTS INJURY *(continued)*

<p>Project 5.4: Pain Scale</p> <p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and scientific problem solving to make informed decisions. <p>Scientific Concepts</p> <ul style="list-style-type: none"> • Know that changes in matter affect everyday life. <p>Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Physics Scientific Concepts</p> <ul style="list-style-type: none"> • Know that changes occur within a physical system and recognize that energy and momentum are conserved. • Know the laws of thermodynamics. <p>Social Studies Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior. <p>Culture</p> <ul style="list-style-type: none"> • Understand behavioral, social and cognitive perspectives of human learning. 	<p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings.
---	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 5: SPORTS INJURY *(continued)*

<p>Project 5.5: Budget and Resource Planning</p> <p>National Health Care Cluster Foundation Standards <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Information Technology Applications: Demonstrate use of information technology appropriate to health care applications.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Express and support responses to various types of texts. • Speak clearly and effectively for a variety of purposes and audiences. • Prepare, organize and present informative and persuasive oral messages. • Understand and interpret visual representations. • Analyze and critique the significance of visual presentations. • Produce visual representations that communicate with others. <p>Mathematics Algebra I Basic Understandings</p> <ul style="list-style-type: none"> • Build on the foundation concepts from earlier grades. • Algebraic thinking and symbolic reasoning. • Use function concepts to represent and model problem situations and to analyze and interpret relationships. • Work to set up equations and use a variety of methods to solve the equations. 	<ul style="list-style-type: none"> • Use a variety of representations, tools and technology to model mathematical situations and to solve meaningful problems. • Use problem-solving, computation in problem-solving contexts, language and communication, connections within and outside mathematics and reasoning, as well as multiple representations, applications and modeling and justification and proof. <p>Foundations for Functions</p> <ul style="list-style-type: none"> • Understand that a function represents a dependence of one quantity on another and can be described in a variety of ways. • Use the properties and attributes of functions. • Understand how algebra can be used to express generalizations and recognize and use the power of symbols to represent situations. <p>Linear Functions</p> <ul style="list-style-type: none"> • Formulate equations and inequalities based on linear functions, use a variety of methods to solve them and analyze the solutions in terms of the situations. • Formulate systems of linear equations from problem situations, use a variety of methods to solve them and analyze the solutions in terms of the situations. <p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of science and technology on the economic development of the United States. • Understand the influence of scientific discoveries and technological innovations on daily life in the United States.
---	--

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 5: SPORTS INJURY *(continued)*

Project 5.5: Budget and Resource Planning <i>(continued)</i>	Project 5.6: Biomedical Engineering
<p>Social Studies Skills</p> <ul style="list-style-type: none"> Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. 	<p>National Health Care Cluster Foundation Standards</p> <p><i>Communications: Communicate effectively, both orally and in writing.</i></p> <p><i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i></p> <p><i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i></p> <p><i>Legal Responsibilities: Understand legal responsibilities, limitations and implications of actions within the health care delivery setting and perform duties according to regulations, policies, laws and legislated rights of clients.</i></p> <p><i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i></p> <p><i>Technical Skills: Demonstrate appropriate skills and knowledge.</i></p> <p>Texas Essential Knowledge and Skills</p> <p>English Language Arts: English I</p> <ul style="list-style-type: none"> Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. Use writing as a tool for learning. Listen attentively for a variety of purposes. Speak clearly and effectively for a variety of purposes and audiences. <p>Mathematics</p> <p>Algebra I</p> <p>Basic Understandings</p> <ul style="list-style-type: none"> Build on the foundation concepts from earlier grades. Algebraic thinking and symbolic reasoning. Use function concepts to represent and model problem situations and to analyze and interpret relationships. Use a variety of representations, tools and technology to model mathematical situations and to solve meaningful problems.

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 5: SPORTS INJURY *(continued)*

<p>Project 5.6: Biomedical Engineering <i>(continued)</i></p> <p>Science Integrated Physics and Chemistry Scientific Processes</p> <ul style="list-style-type: none"> • Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices. • Use scientific methods during field and laboratory investigations. • Use critical thinking and problem solving to make informed decisions. <p>Physics Scientific Concepts</p> <ul style="list-style-type: none"> • Know that changes occur within a physical system and recognize that energy and momentum are conserved. <p>Social Studies United States Government Economics</p> <ul style="list-style-type: none"> • Understand the roles played by local, state and national governments in both the public and private sectors of the U.S. free enterprise system. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the role the government plays in developing policies and establishing conditions that influence scientific discoveries and technological innovations. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. • Communicate in written, oral and visual forms. • Use problem-solving and decision-making skills, working independently and with others, in a variety of settings. 	<p>Sociology Government</p> <ul style="list-style-type: none"> • Understand how governments promote cultural values and provide for social controls. <p>Culture</p> <ul style="list-style-type: none"> • Understand how people develop social institutions to meet basic needs in a society. <p>Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the impact of scientific discoveries and technological innovations on individuals and societies.
--	---

**ALIGNMENT OF AMERICAN CAREERS HEALTH PLANNER
WITH THE TEXAS ESSENTIAL KNOWLEDGE AND SKILLS (HIGH SCHOOL)**

SCENARIO 5: SPORTS INJURY *(continued)*

<p>Project 5.7: Conditioning Research</p> <p>National Health Care Cluster Foundation Standards <i>Academic Foundation: Know the academic subject matter for proficiency within a specific area.</i> <i>Communications: Communicate effectively, both orally and in writing.</i> <i>Systems: Understand how individual roles fit into departments, the organization and the overall health-care environment.</i> <i>Employability Skills: Understand how employability skills enhance employment opportunities and job satisfaction.</i> <i>Teamwork: Understand the roles and responsibilities of individual members as part of the health care team.</i> <i>Health Maintenance Practices: Understand the fundamentals of wellness and the prevention of disease processes.</i></p> <p>Texas Essential Knowledge and Skills English Language Arts: English I</p> <ul style="list-style-type: none"> • Write in a variety of forms, including business, personal, literary and persuasive texts, for various audiences and purposes. • Use recursive writing processes when appropriate. • Use a variety of strategies to read unfamiliar words and to build vocabulary. • Comprehend selections using a variety of strategies. • Read extensively and intensively for different purposes in varied sources. • Express and support responses to various types of texts. • Read in order to research self-selected and assigned topics. • Speak clearly and effectively for a variety of purposes and audiences. • Prepare, organize and present informative and persuasive oral messages. • Understand and interpret visual representations. • Produce visual representations that communicate with others. 	<p>Science Biology Scientific Concepts</p> <ul style="list-style-type: none"> • Know how an organism grows and how specialized cells, tissues and organs develop. • Know metabolic processes and energy transfers that occur in living organisms. • Know that at all levels of nature, living systems are found within other living systems, each with its own boundary and limits. • Know that organisms maintain homeostasis. <p>Social Studies United States History Since Reconstruction Science, Technology and Society</p> <ul style="list-style-type: none"> • Understand the influence of scientific discoveries and technological innovations on daily life in the United States. <p>Social Studies Skills</p> <ul style="list-style-type: none"> • Apply critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology. <p>Psychology The Individual in Society</p> <ul style="list-style-type: none"> • Understand that beliefs, decisions and actions have consequences. • Understand the influence of sensory perceptions on the shaping of individual beliefs and attitudes. • Understand the relationship between biology and behavior.
--	---