

Health Science Theory

At-A-Glance - Lamar CISD

Professional Standards/Employability Skills/Technical Skills				
Ongoing Skills Imbedded All Year	<p>HS 1(A) The student will express ideas in a clear, concise, and effective manner. HS 1(B) The student will exhibit the ability to cooperate, contribute, and collaborate as a member of a team. HS 1(C) The student will model industry expectations of professional conduct such as attendance, punctuality, appropriate professional dress, proper hygiene, and time management. HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science. HS 6(B) The student will prepare health documents or records according to industry-based standards. HS 2(A) The student will demonstrate care, empathy, and compassion. HS 2(B) The student will communicate medical information accurately and efficiently in language that patients can understand. HS 2(C) The student will comply with Health Insurance Portability and Accountability Act (HIPAA) policy standards. HS 9(D) The student will demonstrate skills related to assisting patients with activities of daily living such as dressing, undressing, grooming, bathing, and feeding. HS 9(E) The student will determine proper equipment needed for patient ambulation such as gait belts, wheelchairs, crutches, or walkers.</p>			
	Grading Period	Unit Name	Estimated Time Frame	TEKS
Grading Period 1 29 Days	Introduction – Campus specific		3 Days	
	Healthcare Systems 2		5 Days	3E, 12A
	<p>HS 3(E) The student will research topics related to health science such as the global impact of disease prevention. HS 12(A) The student will describe governmental regulations and guidelines from entities such as the World Health Organization (WHO), Centers for Disease Control and Prevention (CDC), Occupational Safety and Health Occupational (OSHA), U.S. Food and Drug Administration (FDA), The Joint Commission, and the National Institute of Health (NIH), and Texas Department of State Health Service (DSHS).</p>			
	Careers 3		7 Days	5A, 7A, 7B, 10A, 13D, 13E
	<p>HS 5(A) The student will evaluate how healthy relationships influence career performance. HS 7(A) The student will research education, certification, licensing, and continuing education requirements and salary related to specific health science careers. HS 7(B) The student will practice employment procedures for a specific health science career such as resume building, application completion, and interviewing. HS 10(A) The student will research and describe the role of professional associations and regulatory agencies. HS 13(D) The student will research and analyze the effects of access to quality health care. HS 13(E) The student will research alternative health practices and therapies.</p>			
	Personal Qualities of Worker 4		4 Days	1C, 2A, 2B, 2C, 5B, 5C, 11A, 11B, 11C
	<p>HS 1(C) The student will model industry expectations of professional conduct such as attendance, punctuality, appropriate professional dress, proper hygiene, and time management. HS 2(A) The student will demonstrate care, empathy, and compassion. HS 2(B) The student will communicate medical information accurately and efficiently in language that patients can understand. HS 2(C) The student will comply with Health Insurance Portability and Accountability Act (HIPAA) policy standards. HS 5(B) The student will identify the role of communication skills in building and maintaining healthy relationships. HS 5(C) The student will demonstrate strategies for communicating needs, wants, and emotions in a healthcare setting. HS 11(A) The student will identify essential leadership skills of health science professionals. HS 11(B) The student will assess group dynamics in real or simulated groups. HS 11(C) The student will integrate consensus-building techniques.</p>			
	Safety 14 & Infection Control 15		5 Days	6A, 6B, 9E, 9H, 12B, 12C, 12D, 12E, 13A, 13C
<p>HS 6(A) The student will research document formats such as dental or medical records. HS 6(B) The student will prepare health documents or records according to industry-based standards. HS 9(E) The student will determine proper equipment needed for patient ambulation such as gait belts, wheelchairs, crutches, or walkers. HS 9(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills.</p>				

	<p>HS 12(B) The student will explain protocol related to hazardous materials and situations such as personal protective equipment (PPE) and blood borne pathogen exposure. HS 12(C) The student will describe how to access and report unsafe conditions. HS 12(D) The student will identify the benefits of recycling and waste management for cost containment and environmental protection. HS 12(E) The student will demonstrate proper body mechanics to reduce the risk of injury. HS 13(A) The student will research wellness strategies for prevention of disease. HS 13(C) The student will explain the benefits of positive relationships between community members and health professionals in promoting a healthy community.</p>		
	Legal & Ethics 5	5 Days	9A, 10B, 10C, 12A
	<p>HS 9(A) The student will comply with specific industry standards related to safety requirements. HS 10(B) The student will examine legal and ethical behavior standards such as Patient Bill of Rights, advanced directives, and the Health Insurance Portability and Accountability Act – HIPPA. HS 10(C) The student will investigate the legal, ethical, and professional ramifications of unacceptable or discriminatory behavior. HS 12(A) The student will describe governmental regulations and guidelines from entities such as the World Health Organization (WHO), Centers for Disease Control and Prevention (CDC), Occupational Safety and Health Occupational (OSHA), U.S. Food and Drug Administration (FDA), The Joint Commission, and the National Institute of Health (NIH), and Texas Department of State Health Service (DSHS).</p>		
Grading Period 2 27 Days	Vital Signs and First Aid 16-17	9 Days	4A, 4B, 5D, 6C, 8A, 8B, 8C, 9F, 9G, 9H, 9I
	<p>HS 4(A) The student will demonstrate therapeutic communication appropriate to the situation HS 4(B) The student will use appropriate verbal and non-verbal skills when communicating with persons with sensory loss and language barriers in a simulated setting. HS 5(D) The student will evaluate the effectiveness of conflict-resolution techniques in various simulated healthcare workplace situations. HS 6(C) The student will record health information on paper and electronic formats such as patient history, vital statistics, and test results. HS 8(A) The student will apply critical-thinking, adaptability, and consensus-building skills to solve problems relevant to health science. HS 8(B) The student will evaluate the impact of decisions in health science. HS 8(C) The student will suggest modifications to a decision or plan based on healthcare outcomes. HS 9(D) The student will demonstrate skills related to assisting patients with activities of daily living such as dressing, undressing, grooming, bathing, and feeding. HS 9(F) The student will demonstrate skills related to accessing range of motion and assisting with mobility; including turning, lifting, and transferring patients for treatment or examination. HS 9(G) The student will role play techniques used in stressful situations such as situations involving trauma and chronic, and terminal illness. HS 9(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills. HS 9(I) The student will identify basic skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.</p>		
	Medical Terminology 6	5 Days	3B, 3C, 9B
	<p>HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science. HS 3(C) The student will interpret complex technical material related to the health science industry. HS 9(B) The student will employ medical vocabulary specific to the healthcare setting.</p>		
	Paxton Student Training	3 Days	
Paxton Rotation	10 Days		
Grading Period 3 28 Days	Anatomy & Physiology 7	10 Days	2D, 13A, 13F
	<p>HS 2(D) The student will summarize biological and chemical processes in the body such as maintaining homeostasis. HS 13(A) The student will research wellness strategies for prevention of disease. HS 13(F) The student will explain the changes in structure and function of the body due to trauma and disease.</p>		

	Cultural Diversity 10	5 Days	2A, 2B, 2C, 4B
	HS 2(A) The student will demonstrate care, empathy, and compassion. HS 2(B) The student will communicate medical information accurately and efficiently in language that patients can understand. HS 2(C) The student will comply with Health Insurance Portability and Accountability Act (HIPAA) policy standards. HS 4(B) The student will use appropriate verbal and non-verbal skills when communicating with persons with sensory loss and language barriers in a simulated setting.		
	Technology in Healthcare 12	4 Days	3C, 3E, 4C, 6C
	HS 3(C) The student will interpret complex technical material related to the health science industry. HS 3(E) The student will research topics related to health science such as the global impact of disease prevention and cost containment. HS 4(C) The student will use electronic communication devices in the classroom or clinical setting appropriately. HS 6(C) The student will record health information on paper and electronic formats such as patient history, vital statistics, and test results.		
	Medical Mathematics 13	5 Days	3A
	HS 3(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.		
	Semester Exam and Testing	4 Days	
Grading Period 4 31 Days	Patient Health	5 Days	3D, 13A, 13F
	HS 3(D) The student will summarize biological and chemical processes in the body such as maintaining homeostasis. HS 13(A) The student will research wellness strategies for prevention of disease. HS 13(F) The student will explain the changes in structure and function of the body due to trauma and disease.		
	Nutrition	4 Days	13A, 8B, 8C
	HS 13(A) The student will research wellness strategies for prevention of disease. HS 8(B) The student will evaluate the impact of decisions in health science. HS 8(C) The student will suggest modifications to a decision or plan based on healthcare outcomes.		
	CPR	11 Days	2D, 9H, 13F
	HS 2(D) The student will summarize biological and chemical processes in the body such as maintaining homeostasis. HS 9(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills. HS 13(F) The student will explain the changes in structure and function of the body due to trauma and disease.		
	Paxton Rotation	11 Days	
See TEKs after 6 th 6 weeks per Paxton Modules			
Grading Period 5 30 Days	Paxton Rotation	11 Days	
	Paxton Rotation	11 Days	
	See TEKs after 6 th 6 weeks per Paxton Modules		
	Patient Interaction/Documentation	8 Days	3A, 3B, 4C, 6A, 6B, 9C, 10B
HS 3(A) The student will solve mathematical calculations appropriate to situations in a health-related environment. HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science. HS 4(C) The student will use electronic communication devices in the classroom or clinical setting appropriately. HS 6(A) The student will research document formats such as dental or medical records. HS 6(B) The student will prepare health documents or records according to industry-based standards. HS 9(C) The student will perform admission, discharge, and transfer functions in a simulated setting. HS 10(B) The student will examine legal and ethical behavior standards such as Patient Bill of Rights, advanced directives, and the Health Insurance Portability and Accountability Act – HIPPA.			

Grading Period 6 27 Days	Paxton Rotation	11 Days	
	Paxton Rotation	11 Days	
	Medical Simulation and Review of Labs	5 Days	3A, 3C, 4C, 6B, 9B, 9C, 9H, 13B
	<p>HS 3(A) The student will solve mathematical calculations appropriate to situations in a health-related environment. HS 3(C) The student will interpret complex technical material related to the health science industry. HS 4(C) The student will use electronic communication devices in the classroom or clinical setting appropriately. HS 6(B) The student will prepare health documents or records according to industry-based standards. HS 9(B) The student will employ medical vocabulary specific to the healthcare setting. HS 9(C) The student will perform admission, discharge, and transfer functions in a simulated setting. HS 9(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills. HS 13(B) The student will evaluate positive and negative effects of relationships on physical and emotional health.</p>		
	Cart – Ongoing		3B, 4C, 5A, 5B, 5C, 5D, 7A, 7B, 8A, 8B, 8C, 9B, 9I, 10A, 10C, 11A, 11B, 11C
	<p>HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science. HS 4(C) The student will use electronic communication devices in the classroom or clinical setting appropriately. HS 5(A) The student will evaluate how healthy relationships influence career performance. HS 5(B) The student will identify the role of communication skills in building and maintaining healthy relationships. HS 5(C) The student will demonstrate strategies for communicating needs, wants, and emotions in a healthcare setting. HS 5(D) The student will evaluate the effectiveness of conflict-resolution techniques in various simulated healthcare workplace situations. HS 7(A) The student will research education, certification, licensing, and continuing education requirements and salary related to specific health science careers. HS 7(B) The student will practice employment procedures for a specific health science career such as resume building, application completion, and interviewing. HS 8(A) The student will apply critical-thinking, adaptability, and consensus-building skills to solve problems relevant to health science. HS 8(B) The student will evaluate the impact of decisions in health science. HS 8(C) The student will suggest modifications to a decision or plan based on healthcare outcomes. HS 9(B) The student will employ medical vocabulary specific to the healthcare setting. HS 9(I) The student will identify basic skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician. HS 10(A) The student will research and describe the role of professional associations and regulatory agencies. HS 10(C) The student will investigate the legal, ethical, and professional ramifications of unacceptable or discriminatory behavior. HS 11(A) The student will identify essential leadership skills of health science professionals. HS 11(B) The student will assess group dynamics in real or simulated groups. HS 11(C) The student will integrate consensus-building techniques.</p>		
	Bio Medical		
	<p>HS 3(A) The student will solve mathematical calculations appropriate to situations in a health-related environment. HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science. HS 3(C) The student will interpret complex technical material related to the health science industry. HS 3(D) The student will summarize biological and chemical processes that maintain homeostasis. HS 13(F) The student will explain the changes in structure and function of the body due to trauma and disease. HS 6(B) The student will prepare health documents or records according to industry-based standards. HS 7(A) The student will research education, certification, licensing, and continuing education requirements and salary related to specific health science careers. HS 8(A) The student will apply critical-thinking, adaptability, and consensus-building skills to solve problems relevant to health science. HS 8(B) The student will evaluate the impact of decisions in health science. HS 8(C) The student will suggest modifications to a decision or plan based on healthcare outcomes. HS 9(A) The student will comply with specific industry standards related to safety requirements. HS 9(B) The student will employ medical vocabulary specific to the healthcare setting. HS 9(I) The student will identify basic skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician. HS 10(A) The student will research and describe the role of professional associations and regulatory agencies.</p>		
	Bio Tech		
	<p>HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science. HS 3(C) The student will interpret complex technical material related to the health science industry. HS 3(D) The student will summarize biological and chemical processes that maintain homeostasis. HS 13(F) The student will explain the changes in structure and function of the body due to trauma and disease. HS 3(E) The student will research topics related to health science such as the global impact of disease prevention and cost containment.</p>		

HS 7(A) The student will research education, certification, licensing, and continuing education requirements and salary related to specific health science careers.
 HS 8(A) The student will apply critical-thinking, adaptability, and consensus-building skills to solve problems relevant to health science.
 HS 8(C) The student will suggest modifications to a decision or plan based on healthcare outcomes.
 HS 9(A) The student will comply with specific industry standards related to safety requirements.
 HS 9(B) The student will employ medical vocabulary specific to the healthcare setting.
 HS 13(E) The student will research alternative health practices and therapies.

Clinical Lab

HS 3(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.
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 HS 9(B) The student will employ medical vocabulary specific to the healthcare setting.
 HS 9(C) The student will perform admission, discharge, and transfer functions in a simulated setting.
 HS 9(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills.
 HS 9(I) The student will identify basic skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.
 HS 10(A) The student will research and describe the role of professional associations and regulatory agencies.

EMT

HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science.
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 HS 8(B) The student will evaluate the impact of decisions in health science.
 HS 9(A) The student will comply with specific industry standards related to safety requirements.
 HS 9(B) The student will employ medical vocabulary specific to the healthcare setting.
 HS 9(C) The student will perform admission, discharge, and transfer functions in a simulated setting.
 HS 9(G) The student will role play techniques used in stressful situations such as situations involving trauma and chronic, and terminal illness.
 HS 9(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills.
 HS 12(B) The student will explain protocol related to hazardous materials and situations such as personal protective equipment (PPE) and blood borne pathogen exposure.
 HS 12(C) The student will observe and report unsafe conditions.
 HS 12(D) The student will practice recycling and waste management for cost containment and environmental protection.

Dental

HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science.
 HS 3(C) The student will interpret complex technical material related to the health science industry.
 HS 3(D) The student will summarize biological and chemical processes that maintain homeostasis.
 HS 13(F) The student will explain the changes in structure and function of the body due to trauma and disease.
 HS 7(A) The student will research education, certification, licensing, and continuing education requirements and salary related to specific health science careers.
 HS 9(A) The student will comply with specific industry standards related to safety requirements.
 HS 9(B) The student will employ medical vocabulary specific to the healthcare setting..

Medical Image

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 HS 3(D) The student will summarize biological and chemical processes in the body such as maintain homeostasis.
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HS 12(B) The student will explain protocol related to hazardous materials and situations such as personal protective equipment (PPE) and blood borne pathogen exposure.

HS 12(C) The student will observe and report unsafe conditions.

Nursing

HS 3(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.

HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science.

HS 3(C) The student will interpret complex technical material related to the health science industry.

HS 3(D) The student will summarize biological and chemical processes that maintain homeostasis.

HS 3(E) The student will research topics related to health science such as the global impact of disease prevention.

HS 5(B) The student will identify the role of communication skills in building and maintaining healthy relationships.

HS 5(D) The student will evaluate the effectiveness of conflict-resolution techniques in various simulated healthcare workplace situations.

HS 6(B) The student will prepare health documents or records according to industry-based standards.

HS 7(A) The student will research education, certification, licensing, and continuing education requirements and salary related to specific health science careers.

HS 7(B) The student will practice employment procedures for a specific health science career such as resume building, application completion, and interviewing.

HS 8(A) The student will apply critical-thinking, adaptability, and consensus-building skills to solve problems relevant to health science.

HS 8(B) The student will evaluate the impact of decisions in health science.

HS 8(C) The student will suggest modifications to a decision or plan based on healthcare outcomes.

HS 9(A) The student will comply with specific industry standards related to safety requirements.

HS 9(B) The student will employ medical vocabulary specific to the healthcare setting.

HS 9(C) The student will perform admission, discharge, and transfer functions in a simulated setting.

HS 9(D) The student will demonstrate skills related to assisting patients with activities of daily living such as dressing, undressing, grooming, bathing, and feeding.

HS 9(F) The student will demonstrate skills related to accessing range of motion and assisting with mobility; including turning, lifting, and transferring patients for treatment or examination.

HS 9(G) The student will role play techniques used in stressful situations such as situations involving trauma and chronic, and terminal illness.

HS 9(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills.

HS 9(I) The student will identify basic skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.

HS 10(B) The student will examine legal and ethical behavior standards such as Patient Bill of Rights, advanced directives, and the Health Insurance Portability and Accountability Act – HIPPA.

HS 13(A) The student will research wellness strategies for prevention of disease.

HS 13(F) The student will explain the changes in structure and function of the body due to trauma and disease.

Pharmacy

HS 3(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.

HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science.

HS 3(C) The student will interpret complex technical material related to the health science industry.

HS 3(D) The student will summarize biological and chemical processes that maintain homeostasis.

HS 13(F) The student will explain the changes in structure and function of the body due to trauma and disease.

HS 4(A) The student will demonstrate therapeutic communication appropriate to the situation.

HS 6(B) The student will prepare health documents or records according to industry-based standards.

HS 7(A) The student will research education, certification, licensing, and continuing education requirements and salary related to specific health science careers.

HS 9(A) The student will comply with specific industry standards related to safety requirements.

HS 9(B) The student will employ medical vocabulary specific to the healthcare setting.

HS 10(A) The student will research and describe the role of professional associations and regulatory agencies.

HS 10(C) The student will investigate the legal, ethical, and professional ramifications of unacceptable or discriminatory behavior.

HS 13(A) The student will research wellness strategies for prevention of disease.

HS 13(D) The student will research and analyze the effects of access to quality health care.

HS 13(E) The student will research alternative health practices and therapies.

Speech

HS 3(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.

HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science.

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HS 4(A) The student will demonstrate therapeutic communication appropriate to the situation.

HS 4(B) The student will use appropriate verbal and non-verbal skills when communicating with persons with sensory loss and language barriers in a simulated setting.

HS 7(A) The student will research education, certification, licensing, and continuing education requirements and salary related to specific health science careers.

HS 8(B) The student will evaluate the impact of decisions in health science.

HS 9(A) The student will comply with specific industry standards related to safety requirements.

HS 9(B) The student will employ medical vocabulary specific to the healthcare setting.

HS 13(B) The student will evaluate positive and negative effects of relationships on physical and emotional health.

Sports Medicine

HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science.
HS 3(C) The student will interpret complex technical material related to the health science industry.
HS 3(D) The student will summarize biological and chemical processes that maintain homeostasis.
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HS 9(F) The student will demonstrate skills related to accessing range of motion and assisting with mobility; including turning, lifting, and transferring patients for treatment or examination.
HS 9(G) The student will role play techniques used in stressful situations such as situations involving trauma and chronic, and terminal illness.
HS 9(I) The student will identify basic skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.
HS 13(A) The student will research wellness strategies for prevention of disease.

Therapeutic

HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science.
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HS 9(I) The student will identify basic skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.
HS 12(C) The student will observe and report unsafe conditions.
HS 13(A) The student will research wellness strategies for prevention of disease.

Veterinarian

HS 3(B) The student will express ideas clearly in writing and develop skills in documentation related to health science.
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