

Health Science Theory

At-A-Glance - Lamar CISD

Ongoing Skills Imbedded All Year	Professional Standards/Employability Skills/Technical Skills		
	HS 1(A) The student will solve mathematical calculations appropriate to situations in a health-related environment. HS 1(B) The student will communicate using medical terminology. HS 1(C) The student will express ideas in writing and develop skills in documentation. HS 1(D) The student will interpret complex technical material related to the health science industry. HS 3(B) The student will demonstrate communication skills in building and maintaining healthy relationships. HS 3(C) The student will demonstrate strategies for communicating needs, wants, and emotions. HS 8(B) The student will model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management. HS 8(C) The student will articulate comprehension of assignment. HS 9(D) The student will perform within the designated scope of practice. HS 10(A) The student will identify leadership skills of health science professionals.		
Grading Period	Unit Name	Estimated Time Frame	TEKS
Grading Period 1 29 Days	Health Care	7 Days	11A, 1G
	HS 11(A) The student will conform to governmental regulations and guidelines such as World Health Administration, Centers for Disease Control, Occupational Safety and Health Occupational Safety and Health. HS 1(G) The student will research global impact of disease prevention and cost containment.		
	Careers	7 Days	3A, 6A, 6B, 12D, 12E
	HS 3(A) The student will evaluate how a healthy relationship influences career goals. HS 6(A) The student will research specific health science careers. HS 6(B) The student will review employment procedures for a specific health science career. HS 12(D) The student will examine access to quality health care. HS 12(E) The student will research alternative health practices and therapies.		
	Personal Qualities of Worker	5 Days	3B, 3C, 8B, 8C, 10A
	HS 3(B) The student will demonstrate communication skills in building and maintaining healthy relationships. HS 3(C) The student will demonstrate strategies for communicating needs, wants, and emotions. HS 8(B) The student will model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management. HS 8(C) The student will articulate comprehension of assignment. HS 10(A) The student will identify leadership skills of health science professionals.		
	Legal & Ethics	5 Days	11A, 1G, 8A, 9B, 9D
	HS 11(A) The student will conform to governmental regulations and guidelines such as World Health Administration, Centers for Disease Control, Occupational Safety and Health Occupational Safety and Health. HS 1(G) The student will research global impact of disease prevention and cost containment. HS 8(A) The student will comply with specific industry standards related to substance abuse. HS 9(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. HS 9(D) The student will perform within the designated scope of practice.		
	Safety & Infection Control	5 Days	4A, 4B, 5A, 5B, 8H, 11A, 11B, 11C, 11D, 12A, 12C
	HS 4(A) The student will identify and retrieve reportable information. HS 4(B) The student will report information according to facility policy. HS 5(A) The student will describe document formats. HS 5(B) The student will compile and record data according to regulatory agency policy. HS 8(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills in a laboratory setting.		

	<p>HS 11(A) The student will conform to governmental regulations and guidelines such as World Health Administration, Centers for Disease Control, Occupational Safety and Health Occupational Safety and Health.</p> <p>HS 11(B) The student will explain protocol related to hazardous materials and situations such as material safety data sheets.</p> <p>HS 11(C) The student will observe and report unsafe conditions.</p> <p>HS 11(D) The student will practice recycling and waste management for cost containment and environmental protection.</p> <p>HS 12(A) The student will research strategies for prevention of disease.</p> <p>HS 12(C) The student will explain the benefits of positive relationships among community health professionals in promoting a healthy community.</p>		
Grading Period 2 26 Days	Medical Terminology and Anatomy & Physiology	6 Days	8D, 1B, 1D, 1E, 1F, 12A
	<p>HS 8(D) The student will employ medical vocabulary specific to the health-care setting.</p> <p>HS 1(B) The student will communicate using medical terminology.</p> <p>HS 1(D) The student will interpret complex technical material related to the health science industry.</p> <p>Anatomy & Physiology</p> <p>HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.</p> <p>HS 1(F) The student will explain the changes in structure and function due to trauma and disease.</p> <p>HS 12(A) The student will research strategies for prevention of disease.</p>		
	Paxton Rotation 1	10 Days	
	Paxton Rotation 2	10 Days	
	See TEKs after 6th 6 weeks per Paxton Modules		
Grading Period 3 25 Days	Paxton Rotation 3	10 Days	
	Paxton Rotation 4	10 Days	
	Vital Signs and First Aid	5 Days	8G, 8H, 8I
	<p>HS 8(G) The student will role play techniques used in stressful situations such as trauma, chronic, and terminal illness.</p> <p>HS 8(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills in a laboratory setting.</p> <p>HS 8(I) The student will perform skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.</p>		
Grading Period 4 32 Days	Body Systems continue	6 Days	1E, 1F, 12A
	<p>HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.</p> <p>HS 1(F) The student will explain the changes in structure and function due to trauma and disease.</p> <p>HS 12(A) The student will research strategies for prevention of disease.</p>		
	Paxton Rotation 5	13 Days	
	Paxton Rotation 6	13 Days	
	See TEKs after 6th 6 weeks per Paxton Modules		
	Paxton Rotation 7	13 Days	
	Paxton Rotation 8	13 Days	
	See TEKs after 6th 6 weeks per Paxton Modules		

Grading Period 5 32 Days	Business and Accounting	6 Days	1A, 1C, 2C, 5A, 5B, 8E, 9B
	HS 1(A) The student will solve mathematical calculations appropriate to situations in a health-related environment. HS 1(C) The student will express ideas in writing and develop skills in documentation. HS 2(C) The student will use electronic communication with appropriate supervision. HS 5(A) The student will describe document formats. HS 5(B) The student will compile and record data according to regulatory agency policy. HS 8(E) The student will perform admission, discharge, and transfer functions in a simulated setting. HS 9(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.		
Grading Period 6 29 Days	Paxton Rotation 9	11 Days	
	Paxton Rotation 10	11 Days	
	Medical Assistant and Review of Labs	7 Days	1A, 1D, 3C, 5B, 8D, 8E, 8H
	HS 1(A) The student will solve mathematical calculations appropriate to situations in a health-related environment. HS 1(D) The student will interpret complex technical material related to the health science industry. HS 3(C) The student will demonstrate strategies for communicating needs, wants, and emotions. HS 5(B) The student will compile and record data according to regulatory agency policy. HS 8(D) The student will employ medical vocabulary specific to the health-care setting. HS 8(E) The student will perform admission, discharge, and transfer functions in a simulated setting. HS 8(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills in a laboratory setting.		
	Cart – Ongoing HS 1(B) The student will communicate using medical terminology. HS 1(C) The student will express ideas in writing and develop skills in documentation. HS 2(C) The student will use electronic communication with appropriate supervision. HS 3(A) The student will evaluate how a healthy relationship influences career goals. HS 3(B) The student will demonstrate communication skills in building and maintaining healthy relationships. HS 3(C) The student will demonstrate strategies for communicating needs, wants, and emotions. HS 3(D) The student will evaluate the effectiveness of conflict resolution techniques in various situations. HS 4(A) The student will identify and retrieve reportable information. HS 4(B) The student will report information according to facility policy. HS 6(A) The student will research specific health science careers. HS 6(B) The student will review employment procedures for a specific health science career. HS 7(A) The student will analyze systematic procedures for problem solving. HS 7(B) The student will evaluate the impact of decisions. HS 7(C) The student will suggest modifications based on decision outcomes. HS 8(D) The student will employ medical vocabulary specific to the health-care setting. HS 8(I) The student will perform skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician. HS 9(A) The student will research and describe the role of professional associations and regulatory agencies. HS 9(C) The student will examine the legal and ethical ramifications of unacceptable behavior. HS 9(D) The student will perform within the designated scope of practice. HS 10(A) The student will identify leadership skills of health science professionals. HS 10(B) The student will participate in group dynamics. HS 10(C) The student will integrate consensus-building techniques.		

Bio Medical

HS 1(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.
HS 1(B) The student will communicate using medical terminology.
HS 1(C) The student will express ideas in writing and develop skills in documentation.
HS 1(D) The student will interpret complex technical material related to the health science industry.
HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
HS 4(A) The student will identify and retrieve reportable information.
HS 5(B) The student will compile and record data according to regulatory agency policy.
HS 6(A) The student will research specific health science careers.
HS 7(A) The student will analyze systematic procedures for problem solving.
HS 7(B) The student will evaluate the impact of decisions.
HS 7(C) The student will suggest modifications based on decision outcomes.
HS 8(A) The student will comply with specific industry standards related to substance abuse.
HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
HS 8(I) The student will perform skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.
HS 9(A) The student will research and describe the role of professional associations and regulatory agencies.

Bio Tech

HS 1(B) The student will communicate using medical terminology.
HS 1(C) The student will express ideas in writing and develop skills in documentation.
HS 1(D) The student will interpret complex technical material related to the health science industry.
HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
HS 1(G) The student will research global impact of disease prevention and cost containment.
HS 6(A) The student will research specific health science careers.
HS 7(A) The student will analyze systematic procedures for problem solving.
HS 7(C) The student will suggest modifications based on decision outcomes.
HS 8(A) The student will comply with specific industry standards related to substance abuse.
HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
HS 12(E) The student will research alternative health practices and therapies.

Clinical Lab

HS 1(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.
HS 1(B) The student will communicate using medical terminology.
HS 1(C) The student will express ideas in writing and develop skills in documentation.
HS 1(D) The student will interpret complex technical material related to the health science industry.
HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
HS 6(A) The student will research specific health science careers.
HS 7(B) The student will evaluate the impact of decisions.
HS 8(A) The student will comply with specific industry standards related to substance abuse.
HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
HS 8(E) The student will perform admission, discharge, and transfer functions in a simulated setting.
HS 8(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills in a laboratory setting.
HS 8(I) The student will perform skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.
HS 9(A) The student will research and describe the role of professional associations and regulatory agencies.

EMT

HS 1(B) The student will communicate using medical terminology.
HS 1(C) The student will express ideas in writing and develop skills in documentation.
HS 1(D) The student will interpret complex technical material related to the health science industry.
HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
HS 2(A) The student will demonstrate therapeutic communication appropriate to the situation.
HS 4(A) The student will identify and retrieve reportable information.
HS 4(B) The student will report information according to facility policy.
HS 6(A) The student will research specific health science careers.
HS 6(B) The student will review employment procedures for a specific health science career.
HS 7(A) The student will analyze systematic procedures for problem solving.
HS 7(B) The student will evaluate the impact of decisions.
HS 8(A) The student will comply with specific industry standards related to substance abuse.
HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
HS 8(E) The student will perform admission, discharge, and transfer functions in a simulated setting.
HS 8(G) The student will role play techniques used in stressful situations such as trauma, chronic, and terminal illness.
HS 8(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills in a laboratory setting.
HS 9(D) The student will perform within the designated scope of practice.
HS 11(B) The student will explain protocol related to hazardous materials and situations such as material safety data sheets.
HS 11(C) The student will observe and report unsafe conditions.
HS 11(D) The student will practice recycling and waste management for cost containment and environmental protection.

Dental

HS 1(B) The student will communicate using medical terminology.
HS 1(C) The student will express ideas in writing and develop skills in documentation.
HS 1(D) The student will interpret complex technical material related to the health science industry.
HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
HS 4(A) The student will identify and retrieve reportable information.
HS 4(B) The student will report information according to facility policy.
HS 5(A) The student will describe document formats.
HS 6(A) The student will research specific health science careers.
HS 8(A) The student will comply with specific industry standards related to substance abuse.
HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
and situations such as material safety data sheets.
HS 9(D) The student will perform within the designated scope of practice.

Medical Image

HS 1(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.
HS 1(B) The student will communicate using medical terminology.
HS 1(C) The student will express ideas in writing and develop skills in documentation.
HS 1(D) The student will interpret complex technical material related to the health science industry.
HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
HS 4(A) The student will identify and retrieve reportable information.
HS 6(A) The student will research specific health science careers.
HS 8(A) The student will comply with specific industry standards related to substance abuse.
HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
HS 8(I) The student will perform skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.
HS 11(A) The student will conform to governmental regulations and guidelines such as World Health Administration, Centers for Disease Control, Occupational Safety and Health Occupational Safety and Health.
HS 11(B) The student will explain protocol related to hazardous materials and situations such as material safety data sheets.
HS 11(C) The student will observe and report unsafe conditions.

Nursing

HS 1(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.
HS 1(B) The student will communicate using medical terminology.
HS 1(C) The student will express ideas in writing and develop skills in documentation.
HS 1(D) The student will interpret complex technical material related to the health science industry.
HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
HS 1(G) The student will research global impact of disease prevention and cost containment.
HS 3(B) The student will demonstrate communication skills in building and maintaining healthy relationships.
HS 3(D) The student will evaluate the effectiveness of conflict resolution techniques in various situations.
HS 4(A) The student will identify and retrieve reportable information.
HS 4(B) The student will report information according to facility policy.
HS 5(B) The student will compile and record data according to regulatory agency policy.
HS 6(A) The student will research specific health science careers.
HS 6(B) The student will review employment procedures for a specific health science career.
HS 7(A) The student will analyze systematic procedures for problem solving.
HS 7(B) The student will evaluate the impact of decisions.
HS 7(C) The student will suggest modifications based on decision outcomes.
HS 8(A) The student will comply with specific industry standards related to substance abuse.
HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
HS 8(E) The student will perform admission, discharge, and transfer functions in a simulated setting.
HS 8(F) The student will demonstrate skills related to activities of daily living in rehabilitative care such as range of motion, positioning, and ambulation according to the health science industry standards, regulatory agency standards, and professional guidelines.
HS 8(G) The student will role play techniques used in stressful situations such as trauma, chronic, and terminal illness.
HS 8(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills in a laboratory setting.
HS 8(I) The student will perform skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.
HS 9(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.
HS 9(D) The student will perform within the designated scope of practice.
HS 12(A) The student will research strategies for prevention of disease.

Pharmacy

HS 1(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.
HS 1(B) The student will communicate using medical terminology.
HS 1(C) The student will express ideas in writing and develop skills in documentation.
HS 1(D) The student will interpret complex technical material related to the health science industry.
HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
HS 2(A) The student will demonstrate therapeutic communication appropriate to the situation.

HS 5(B) The student will compile and record data according to regulatory agency policy.
 HS 6(A) The student will research specific health science careers.
 HS 8(A) The student will comply with specific industry standards related to substance abuse.
 HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
 HS 9(A) The student will research and describe the role of professional associations and regulatory agencies.
 HS 9(C) The student will examine the legal and ethical ramifications of unacceptable behavior.
 HS 12(A) The student will research strategies for prevention of disease.
 HS 12(D) The student will examine access to quality health care.
 HS 12(E) The student will research alternative health practices and therapies.

Speech

HS 1(A) The student will solve mathematical calculations appropriate to situations in a health-related environment.
 HS 1(B) The student will communicate using medical terminology.
 HS 1(C) The student will express ideas in writing and develop skills in documentation.
 HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
 HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
 HS 2(A) The student will demonstrate therapeutic communication appropriate to the situation.
 HS 2(B) The student will execute verbal and nonverbal skills when communicating with persons with sensory loss and language barriers.
 HS 4(A) The student will identify and retrieve reportable information.
 HS 6(A) The student will research specific health science careers.
 HS 7(B) The student will evaluate the impact of decisions.
 HS 8(A) The student will comply with specific industry standards related to substance abuse.
 HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
 HS 9(D) The student will perform within the designated scope of practice.
 HS 12(B) The student will evaluate positive and negative effects of relationships on physical and emotional health such as peers, family, and friends.

Sports Medicine

HS 1(B) The student will communicate using medical terminology.
 HS 1(C) The student will express ideas in writing and develop skills in documentation.
 HS 1(D) The student will interpret complex technical material related to the health science industry.
 HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
 HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
 HS 6(A) The student will research specific health science careers.
 HS 7(A) The student will analyze systematic procedures for problem solving.
 HS 7(B) The student will evaluate the impact of decisions.
 HS 7(C) The student will suggest modifications based on decision outcomes.
 HS 8(A) The student will comply with specific industry standards related to substance abuse.
 HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
 HS 8(F) The student will demonstrate skills related to activities of daily living in rehabilitative care such as range of motion, positioning, and ambulation according to the health science industry standards, regulatory agency standards, and professional guidelines.
 HS 8(G) The student will role play techniques used in stressful situations such as trauma, chronic, and terminal illness.
 HS 8(I) The student will perform skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.
 HS 9(D) The student will perform within the designated scope of practice.
 HS 12(A) The student will research strategies for prevention of disease.

Therapeutic

HS 1(B) The student will communicate using medical terminology.
 HS 1(C) The student will express ideas in writing and develop skills in documentation.
 HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.
 HS 1(F) The student will explain the changes in structure and function due to trauma and disease.
 HS 2(A) The student will demonstrate therapeutic communication appropriate to the situation.
 HS 4(A) The student will identify and retrieve reportable information.
 HS 4(B) The student will report information according to facility policy.
 HS 6(A) The student will research specific health science careers.
 HS 6(B) The student will review employment procedures for a specific health science career.
 HS 7(A) The student will analyze systematic procedures for problem solving.
 HS 7(B) The student will evaluate the impact of decisions.
 HS 7(C) The student will suggest modifications based on decision outcomes.
 HS 8(A) The student will comply with specific industry standards related to substance abuse.
 HS 8(D) The student will employ medical vocabulary specific to the health-care setting.
 HS 8(F) The student will demonstrate skills related to activities of daily living in rehabilitative care such as range of motion, positioning, and ambulation according to the health science industry standards, regulatory agency standards, and professional guidelines.
 HS 8(I) The student will perform skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.
 HS 9(D) The student will perform within the designated scope of practice.
 HS 11(C) The student will observe and report unsafe conditions.
 HS 12(A) The student will research strategies for prevention of disease.

Veterinarian

HS 1(B) The student will communicate using medical terminology.

HS 1(C) The student will express ideas in writing and develop skills in documentation.

HS 1(D) The student will interpret complex technical material related to the health science industry.

HS 1(E) The student will summarize biological and chemical processes that maintain homeostasis.

HS 1(F) The student will explain the changes in structure and function due to trauma and disease.

HS 2(B) The student will execute verbal and nonverbal skills when communicating with persons with sensory loss and language barriers.

HS 3(C) The student will demonstrate strategies for communicating needs, wants, and emotions.

HS 6(A) The student will research specific health science careers.

HS 7(A) The student will analyze systematic procedures for problem solving.

HS 7(B) The student will evaluate the impact of decisions.

HS 7(C) The student will suggest modifications based on decision outcomes.

HS 8(A) The student will comply with specific industry standards related to substance abuse.

HS 8(D) The student will employ medical vocabulary specific to the health-care setting.

HS 8(H) The student will demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills in a laboratory setting.

HS 8(I) The student will perform skills specific to a health science professional such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.

HS 11(A) The student will conform to governmental regulations and guidelines such as World Health Administration, Centers for Disease Control, Occupational Safety and Health Occupational Safety and Health.

HS 11(B) The student will explain protocol related to hazardous materials and situations such as material safety data sheets.

HS 12(A) The student will research strategies for prevention of disease.

HS 12(C) The student will explain the benefits of positive relationships among community health professionals in promoting a healthy community.

HS 12(E) The student will research alternative health practices and therapies.