

Principles of Health Science

PRE-TEST/POST-TEST TEKS BLUEPRINT

Pre-Test/Post-Test Development Overview

TEKS Addressed Selection Process

The Texas Essential Knowledge & Skills (TEKS) included in the course pre-test and post-test were selected for their direct relevance to the course content. This selection process was guided by the goal of assessing learners' understanding of specific topics and skills that are integral to the course. As a result, TEKS related to general employability skills or broader topics were often excluded. This focus ensures that the assessments accurately measure students' mastery of the subject matter, allowing educators to gain a clear insight into areas where students excel or may need additional support. By concentrating on content-specific TEKS, the tests provide a more precise evaluation of the students' knowledge and understanding of the core material.

Test Question Development Process

The questions created for the pre-test and post-test were designed using psychometric principles to ensure they are of high quality and fairness. This approach helps to accurately assess student understanding. These principles guide the development of questions to be reliable, valid, and free from bias, ensuring that they effectively measure the knowledge and skills the students are expected to acquire in the course.

Principles of Health Science Pre-Test/Post-Test TEKS Blueprint

(2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (B) apply data from tables, charts, and graphs to provide solutions to health science. The student is expected to: (C) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (C) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (C) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (D) organize, compile, and write ideas into reports and summaries (E) plan and prepare effective oral presentations (E) plan and prepare effective oral presentations (E) plan and prepare effective oral presentations (E) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (C) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (E) Plan and prepare effective oral presentations (E) plan and prepare effect	spectation iCEV Lesson Title	Knowledge & Skills Statement
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social studies in health science. The student is expected to: (2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (3) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (4) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (5) The student applies mathematics, science, English language arts, and score and the effects of movement, torque, tension, and elasticity on the human body (5) The student applies mathematics, science, English language arts, and li) identify human needs according to Maslow's Hierarchy of Human Needs Human Development Applications	sentations Health Science Professionalism: Communication	
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social studies in health science. The student is expected to: as forces and the effects of movement, torque, tension, and elasticity on the human body (2) The student applies mathematics, science, English language arts, and (I) identify human needs according to Maslow's Hierarchy of Human Needs Human Development Applications	process that maintain homeostasis Human Body: Homeostasis	
		social studies in health science. The student is expected to:
	Maslow's Hierarchy of Human Needs Human Development Applications	
(2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (J) describe the stages of development related to the life span Human Development Applications	t related to the life span Human Development Applications	
(2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (K) identify the concepts of health and wellness throughout the life span Human Development Applications	wellness throughout the life span Human Development Applications	
(2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (L) analyze and evaluate communication skills for maintaining healthy relationships in Health Science (E) Analyze and evaluate communication skills for maintaining healthy relationships in Health Science	on skills for maintaining healthy Maintaining Relationships in Health Science	
(2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to:	of health care Healthcare in the United States	
(2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to:	ces on the economy Healthcare in the United States	
(2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (O) analyze the impact of local, state, and national government on the health science industry Healthcare in the United States	and national government on the Healthcare in the United States	
(2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (P) identify diverse and cultural influences that have impacted contemporary Healthcare		
(2) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to: (Q) research and compare practices used by various cultures and societies to solve problems related to health Contemporary Healthcare		

Principles of Health Science Pre-Test/Post-Test TEKS Blueprint

Knowledge & Skills Statement	Student Expectation	iCEV Lesson Title
(3) The student uses verbal and non-verbal communication skills. The	(A) identify components of effective and non-effective communication	Health Science Professionalism: Communication
student is expected to:		
(3) The student uses verbal and non-verbal communication skills. The	(B) demonstrate effective communication skills for responding to the needs	Maintaining Relationships in Health Science
student is expected to:	of individuals in a diverse society	5 1
(3) The student uses verbal and non-verbal communication skills. The	(C) evaluate the effectiveness of conflict-resolution techniques in various	Health Science Professionalism: Communication
student is expected to:	situations	Tiodian Colonica i Toroccionalionii. Communication
(3) The student uses verbal and non-verbal communication skills. The	(D) accurately interpret, transcribe, and communicate medical vocabulary	Medical Terminology in Health Science
student is expected to:	using appropriate technology	Wiedloar Terrimology in Fledian Goleride
(4) The student implements the leadership skills necessary to function in a	0 11 1	Health Science Professionalism: Leadership
democratic society. The student is expected to:	(A) Identity traits of a leader	Tleatiff Science Professionalism. Leadership
	(D) d	Haraba Osisara Darfassisa di anti la adambia
(4) The student implements the leadership skills necessary to function in a		Health Science Professionalism: Leadership
democratic society. The student is expected to:	leaders such as goal-setting and team building	
	(C) demonstrate the ability to effectively conduct and participate in	Health Science Professionalism: Leadership
democratic society. The student is expected to:	meetings	
(7) The students identifies the career pathways related to health science.	(B) identify the collaborative role of team members between systems to	Healthcare Teams
The student is expected to:	deliver quality health care	
(8) The student examines the role of the multidisciplinary team in providing	(A) explain the concept of teaming to provide quality health care	Healthcare Teams
health care. The student is expected:		Ethical Principles in Health Science
(9) The students interprets ethical behavior standards and legal	(B) explain principles of ethical behavior and confidentiality, including the	Ethical Principles in Health Science
responsibilities. The students is expected to:	consequences of breach of confidentiality	·
(9) The students interprets ethical behavior standards and legal	(C) discuss ethical issues related to health care, including implications of	Ethical Principles in Health Science
responsibilities. The students is expected to:	technological advances	'
(9) The students interprets ethical behavior standards and legal	(D) examine issues related to malpractice, negligence, and liability	Ethical Principles in Health Science
responsibilities. The students is expected to:	(2) oranimo locado relatos to maipractico, megingenes, ana nazimy	2.1154.171110[0150 1111154.1111 55151155
(9) The students interprets ethical behavior standards and legal	(E) research laws governing the health science industry	Ethical Principles in Health Science
responsibilities. The students is expected to:	(C) research laws governing the health science industry	Ethical i Thiopies in Fleatin Science
(10) The students recognizes the rights of choices of the individual. The	(A) identify situations related to autonomy	Ethical Principles in Health Science
student is expected to:	(A) identity situations related to autonomy	Lulical Fillioples III Health Science
(10) The students recognizes the rights of choices of the individual. The	(B) identify wellness strategies for the prevention of disease	Disease Prevention
student is expected to:	(b) identify wellness strategies for the prevention of disease	Disease Prevention
	(0)	M : (: : D (: : :
(10) The students recognizes the rights of choices of the individual. The	(C) evaluate positive and negative effects of relationships on physical and	Maintaining Relationships in Health Science
student is expected to:	emotional health such as peers, family, and friends in promoting a healthy	
	community	
(10) The students recognizes the rights of choices of the individual. The	(D) review documentation related to rights and choices	Ethical Principles in Health Science
student is expected to:		
(10) The students recognizes the rights of choices of the individual. The	(E) demonstrate an understanding of diversity and cultural practices	Contemporary Healthcare
student is expected to:	influencing contemporary aspects of health care	
(11) The student recognizes the importance of maintaining a safe	(A) identify governing regulatory agencies such as the World Health	Safety & Regulations in Health Science
environment and eliminating hazardous situations. The student is expected	Organization, Centers for Disease Controland Prevention, Occupational	
to:	Safety and Health Administration, Joint Commission and National Institute	
	of Health	
(11) The student recognizes the importance of maintaining a safe	(B) identify industry safety standards such as standard precautions, fire	Safety & Regulations in Health Science
environment and eliminating hazardous situations. The student is expected		, ,
to:	situations	
(11) The student recognizes the importance of maintaining a safe	(C) relate safety practices in all aspects of the health science industry	Safety & Regulations in Health Science
environment and eliminating hazardous situations. The student is expected	(a) . state satisfy produced in all deposits of the floatin solution industry	Salety & Augustatio III Floridi
to		
(12) The students identifies the technology used in the diagnostic,	(A) research and identify technological equipment used in the diagnostic,	Health Science Equipment
therapeutic, health informatics, support services, and biotechnology	therapeutic, health informatics, support services, and biotechnology	i lealui Soletice Equipitietit
research and development systems. The student is expected to:	research and development systems	
research and development systems. The student is expected to:	researon and development systems	

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Knowledge & Skills Statement	Student Expectation	iCEV Lesson Title
(12) The students identifies the technology used in the diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems. The student is expected to:	(B) identify potential malfunctions of technological equipment	Health Science Equipment
	(C) recognize and explain the process for reporting equipment or technology malfunctions	Health Science Equipment