

Career Exploration and Planning

Course

Principles of Health Science

Unit II

Careers in Health Care

Essential Question

Do I have a place in a health science career?

TEKS

130.202 (c) 1N, 4A, 4B, 5B, 6A, 6B, 11A

Prior Student Learning

General understanding of the definition of health care.

Estimated time

3-7 hours

Rationale

For career satisfaction it is crucial to match individual personality types with employment opportunities.

Objectives

Upon completion of this lesson, the student will be able to:

- apply decision-making skills to career and educational planning;
- use a career planning process that includes self assessment as a way to gain initial entry into the workplace; and
- analyze the skills and abilities required in a variety of career options, and relate them to his or her own skills and abilities.

Engage

Ask students about their current career interests. The answers will vary, from students who absolutely know what they want to do to those who have not thought much about it. Ask students what they have done to help themselves along in their career decision-making process.

Key Points

- I. Each person needs, seeks, and desires different things from a job.
- II. Approximately $\frac{1}{3}$ – $\frac{1}{2}$ of a person's life is spent working, so a job should meet as many of a person's needs as possible.
- III. A career interest inventory tools look at individual strengths and weaknesses, and suggests areas of interest and ability(available from school counselors or Career and Technology counselors).
- IV. Health Science Pathways
 - A. Therapeutic Services – Careers in the Therapeutic Services pathway are focused primarily on changing the health status of the patient over time.
 - B. Diagnostic Services – Careers in the Diagnostic Services pathway use tests and evaluations that aid in the detection, diagnosis, and treatment of diseases, injuries, or other physical conditions.
 - C. Health Informatics – Careers in the Health Informatics pathway include many different levels of health care-related employment. This pathway includes health care administrators who manage

health care agencies, as well as those individuals who are responsible for managing all of the patient data and information, financial information, and computer applications related to health care processes and procedures.

- D. Support Services- Careers in the Support Services pathway provide a therapeutic environment for the delivery of health care. Support Services offers a full range of career opportunities from entry level to management, including technical and professional careers.
- E. Biotechnology Research and Development- Careers in the Biotechnology Research and Development pathway involve bioscience research and development as it applies to human health. These scientists may study diseases to discover new treatments or invent medical devices used to directly assist patients or to improve the accuracy of diagnostic tests.

V. Major career areas in Health Care

- A. Laboratory Science
- B. Imaging
- C. Nursing
- D. Medical
- E. Dental
- F. Veterinarian
- G. Community and Social
- H. Mental Health
- I. Rehabilitative
- J. Emergency
- K. Information and Administrative
- L. Environmental
- M. Biotechnology and Research

VI. Educational Requirements

- A. On-the-job training
- B. Certification – special training and testing required
- C. Associate's degree – 2-year degree
- D. Bachelor's degree – 4-year degree
- E. Master's degree – must have a Bachelor's degree with one or more years of schooling afterwards
- F. Doctorate degree – must have a Bachelor's degree with four or more years of schooling afterwards

VII. Desirable Qualities of a Health Care Workers

- A. Believes in the importance of health care
- B. Gets along well with others – co-workers as well as patients
- C. Enjoys working with other people
- D. Caring

- E. Sympathetic
- F. Kind
- G. Tactful
- H. Listens to others
- I. Dependable
- J. Honest
- K. Adaptable
- L. Willing to Learn
- M. Cares for one's own health
- N. Neat appearance
- O. Clean body and clothing
- P. Accurate
- Q. Considerate
- R. Follows rules and instructions
- S. Helpful
- T. Gracious
- U. Polite
- V. Communicates well
- W. Controls temper
- X. Able to manage stress
- Y. Organized

VIII. Career Search Resources

- A. Newspaper
- B. Employment agencies
- C. Friends
- D. Teachers
- E. Counselors
- F. Professional journals
- G. Job postings
- H. Library
- I. Internet

IX. Two elements that help in making career decisions

- A. Knowing yourself
- B. Using good decision making skills.

Teacher note:

Choose the activities that work best for your setting.

Activity

- I. Complete the **Career Interest Inventory**. Afterwards, have the students reveal their findings from the survey.
- II. After completing the survey, have the students investigate a career form each area of medicine (one from therapeutic, one from diagnostic etc.) using the **Scavenger Hunt Worksheet** to

research information found on each career from the *H.O.T. Jobs* directory.

- III. Choose one of the careers from the scavenger hunt and create a written and oral presentation. Investigate the function of the career within the organizational structure of a health care facility. Include the regional job outlook, salary structure, and educational requirements.
- IV. **Career Shoebox Activity** – Produce a small career display using an adult shoe box and the activity guidelines.
- V. **Career Bulletin Board** – Select and research a chosen health career opportunity, and create a bulletin board placing emphasis on the working environment, equipment used, possible clothing or uniform, and other items that may be used to illustrate a career option.

Assessment

Completion of the **Career Interest Inventory**

Completion of the **Scavenger Hunt Worksheet**

Completion of the **Career Shoebox Activity**

Completion of the **Career Bulletin Board**

Writing Rubric

Project Rubric

Career Shoebox Rubric

Materials

Any source(s) of career exploration

Computers with internet access

Career Resources

Career Interest Inventory

<http://texashotjobs.org/>

Accommodations for Learning Differences

For reinforcement, students will develop a collage of health care careers.

For enrichment, students will interview and report on a health care worker from a field of interest.

National and State Education Standards

National Health Science Cluster Standards

HLC05.01 Health care workers will understand how their role fits into their department, their organization and the overall health care environment. They

will identify how key systems affect services they perform and quality of care.

HLC09.01 Health care workers will understand how employability skills enhance their employment opportunities and job satisfaction. They will demonstrate key employability skills and will maintain and upgrade skills as needed.

TEKS

130.202 (c)(1)(N) describe the impact of health services on the economy;

130.202 (c)(4)(A) locate, evaluate and interpret career options and employment information;

130.202 (c)(4)(B) recognize the impact of career decisions, including cause and effect of changing employment situations;

130.202 (c)(5)(B) identify academic requirements for professional advancement such as certification, licensure, registration, continuing education, and advance degrees;

130.202 (c)(6)(A) compare health science careers within the diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems;

130.202 (c)(6)(B) identify the collaborative role of team members between systems to deliver quality health care; and

130.202 (c)(11)(A) identify technological equipment used in each of the five systems and relate findings to identified societal risk factors.

Texas College and Career Readiness Standards

Cross- Disciplinary Standards

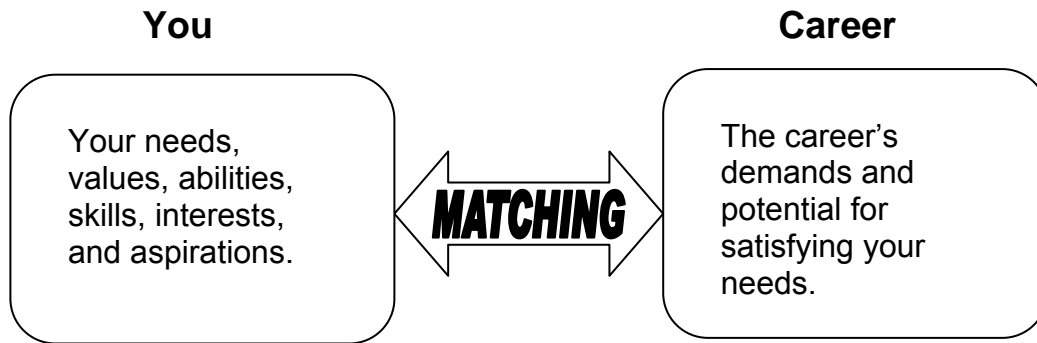
Research across the curriculum 1. Understand which topics or questions are to be investigated.

2. Explore a research topic

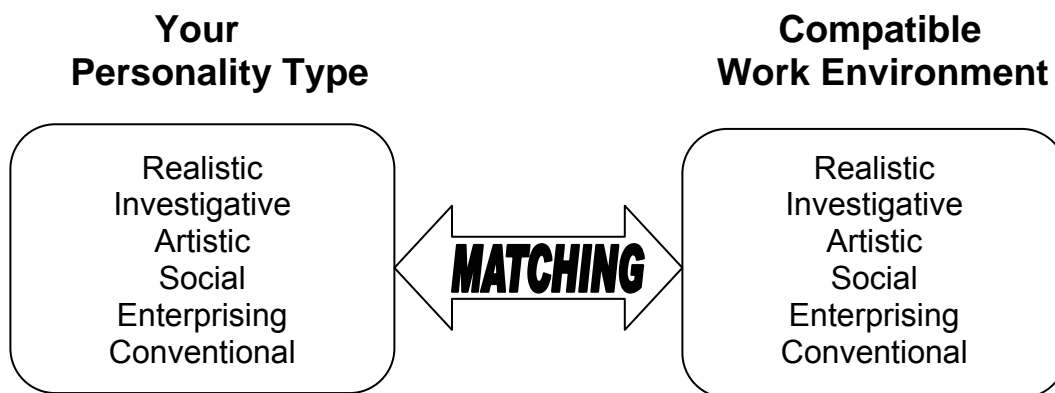
6. Design and present an effective product

Career Interest Inventory

Choosing a career is a matching process. Simply match your needs with the career that best fits them. The Career Interest Inventory assists you in this matching process. It will show you how to identify the healthcare careers most likely to satisfy you.



People can be grouped into six personality types. They are realistic, investigative, artistic, social, enterprising, and conventional. Healthcare careers can be grouped the same way. If you know what personality type you are most like, you can match it with a career found within that group.



Turn to page 2 and begin. Good luck!

How Do You See Yourself?

Read each statement below and decide how much it describes you. If the statement is very true of you, write “2” on the line next to it. If the statement is mostly true of you, write “1.” If the statement does not describe you, write “0.”

R

- I like to work with animals, tools, or machines.
- Compared to others my age, I have good skills working with tools, mechanical drawings, machines, or animals.
- I am athletic, play a sport, and like to be physically active.
- I value practical things you can see or touch like plants and animals you can grow, or things you can build or make better.
- I love nature and like to work outdoors; my hobbies include landscaping and growing plants/flowers.
- I am practical, mechanical, and realistic.

I

- I like to study and solve math or science problems.
- I am good at understanding and solving science and math problems compared to others my age.
- I enjoy crossword puzzles and board games.
- I value science, and understand scientific theories.
- I am interested in preserving endangered species.
- I am precise, scientific, and intellectual.

A

- I like to do creative activities like art, drama, crafts, dance, music, or creative writing.
- Compared to others my age, I have good artistic abilities in creative writing, drama, crafts, music, or art.
- I value the creative arts like drama, music, art, or the works of creative writers.
- I am artistic, imaginative, original, impulsive, and independent.
- I like to work on crafts and take photographs.
- I can play a musical instrument and enjoy performing in front of people.

S

- I like to do things where I can help people, like teaching, first aid, or giving information.
- Compared to persons my age, I am good at teaching, counseling, nursing, or giving information.
- I express myself clearly and can lead a group discussion.
- I like to do volunteer work and religious activities.
- I value helping people and solving social problems.
- I am helpful, friendly, and trustworthy.

E

- I like to lead and persuade people, and to sell things or ideas.
- Compared to persons my age, I am good at leading people and selling things or ideas.
- I would like to start my own business and meet important people.
- I value success in politics, leadership, or business.
- I enjoy watching the stock market and reading business journals.
- I am energetic, self-confident, ambitious, and sociable.

C

- I keep accurate records and like to be responsible for details.
- I like to work with numbers, records, or machines in a set, orderly way.
- Compared to persons my age, I am good at working with written records and numbers in a systematic, orderly way.
- My hobbies include writing family history and genealogy.
- I value success in business and can write effective business letters.
- I am orderly and work well within a system.

Now add the number of points you have for each category. Write the sum on **Line 1** on the next page.

Appealing Occupations

For the careers listed below, write “2” next to those that definitely interest or attract you in some way. Write “1” for those that might interest you. Write “0” for any that you are undecided about, do not sound interesting, or that you would dislike.

- | | |
|---|--|
| <p>_____ Anesthesiologist-I</p> <p>_____ Clinical Psychologist-S</p> <p>_____ Dental Assistant-R</p> <p>_____ Director, Food Services-E</p> <p>_____ EMS Dispatcher-C</p> <p>_____ Firefighter-R</p> <p>_____ Interpreter/Translator-E</p> <p>_____ Medical Secretary-C</p> <p>_____ Photographer-A</p> | <p>_____ Architect-A</p> <p>_____ Computer Operator-C</p> <p>_____ Dentist-I</p> <p>_____ Emergency Medical Technician-S</p> <p>_____ Engineering-Tool/Equip Designer-R</p> <p>_____ Hosp Administrator/Office Manager-E</p> <p>_____ Medical Illustrator-A</p> <p>_____ Nurse/Midwife/Nurse Aide-S</p> <p>_____ Physician, General Practice-I</p> |
|---|--|

To the right of each career title you see a letter. Carefully add the number of points that you have for each of the seven career types and write that sum in the space below on **Line 2**. For example, add the points you gave Dental Assistant, Firefighter, and Engineering-Tool/Equip Designer, and write them on the space labeled “R.”

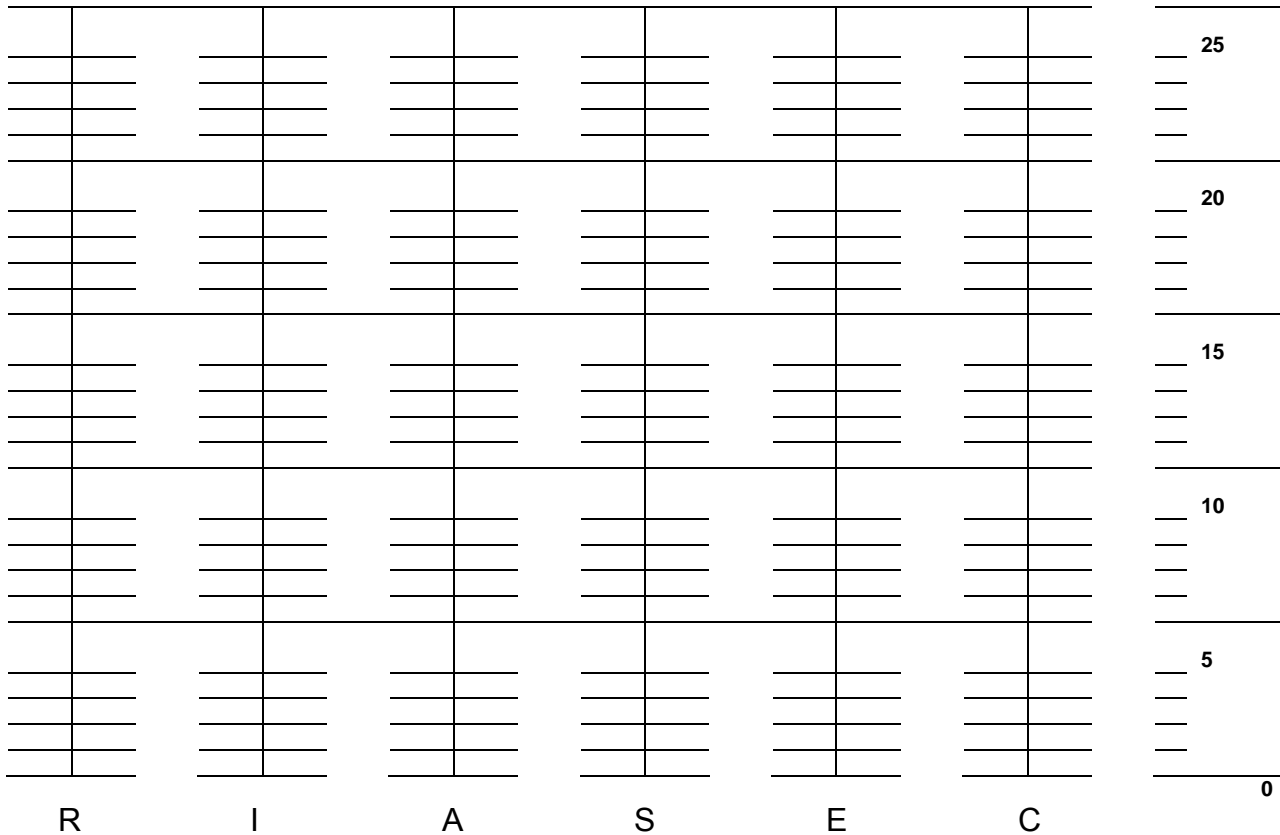
Now, add each column in **Lines 1 and 2** and put your total answer on the same column in **Line 3** to get your score. For example, (Line 1, space R) + (Line 2, space R) = (Line 3, space R).

Line 1	_____	_____	_____	_____	_____	_____
	R	I	A	S	E	C
+						
Line 2	_____	_____	_____	_____	_____	_____
	R	I	A	S	E	C
=						
Line 3	_____	_____	_____	_____	_____	_____
	R	I	A	S	E	C

You will use your total scores on **Line 3** to make construct your **Career Interest Inventory** answer key.

Career Interest Inventory Key

Now you are ready to construct your Career Interest Inventory Key. Begin with the total number of points you have for each personality type from **Line 3** of the previous page. Make a small dot on the graph below for each type. Once you have completed this task, draw a line connecting your dots to complete the answer key.



According to occupational psychologists, there are six types of people: realistic, investigative, artistic, social, enterprising, and conventional. The highest scores on your answer key are the personality types that you are most like.

On the next two pages, many careers are listed. They are grouped according to the six personality types. Read over the careers listed for the two or three personality types that are the highest on your answer key. Place a checkmark next to those in which you have interest and investigate to learn more about them!

Realistic Careers – “The Doers”

Dental Assistant	Dental Laboratory Technician
Dental Technician	Firefighter
Optician	Orthodontic Technician
Practical Nurse	Safety Inspector

Investigative Careers – “The Thinkers”

Anesthesiologist	Audiologist
Biochemist	Biologist
Biomedical Engineer	Cardiologist
Chiropractor	Computer Programmer
Coroner/Forensic Medicine	Dentist
Food Technologist	Geneticist
Gynecologist	Hazardous Waste Technician
Internist	Medical Lab Technologist
Medical Technologist	Microbiologist
Neurologist	Nurse Practitioner
Obstetrician	Ophthalmologist
Optometrist	Pediatrician
Pharmacist	Pharmacologist
Physician, General Practice	Podiatrist
Psychiatrist	Psychologist
Radiologist	Speech Pathologist
Surgeon	Ultrasound Technologist
Urologist	Veterinarian

Artistic Careers – “The Creators”

Architect	Engineer Tool/Equipment Designer
Graphic Designer	Medical Illustrator
Photographer	Writer

Social Careers – “The Helpers”

Athletic Trainer	Clinical Psychologist
Counseling Psychologist	Counselor/Therapist
Dental Hygienist	Emergency Medical Technician
Medical Assistant	Medical Record Administrator
Midwife	Nurse
Nurse Aide	Nurse Instructor
Occupational Therapist	Physical Therapist
Physical Therapy Aide	Physician Assistant
Radiology Technician	Recreational Therapist
Respiratory Therapist	Speech Pathologist

Enterprising Careers – “The Persuaders”

Director, Food Services

Hospital Administrator

Manager, Health Club

Public Health Educator

Funeral Director

Interpreter/Translator

Office Manager

Public Relations Representative

Conventional Careers – “The Organizers”

Accountant

Dispatcher

Medical Records Technician

Computer Operator

Insurance Clerk

Medical Secretary

H.O.T. Jobs Scavenger Hunt

1. How many medical clusters are found in the directory?
2. What does the acronym "H.O.T." stand for? What is the significance of choosing this acronym as a title for this directory?
3. Name three reasons why one should choose health care as a possible career opportunity?
4. Name one career from the diagnostic pathway of health care.
 - Describe the working environment, job outlook, and salary.
 - Name one educational institution that offers a degree plan for this career.
 - What license or certification is necessary for this career?
5. Name one career from the therapeutic pathway of health care.
 - Describe the working environment, job outlook, and salary.
 - Name one educational institution that offers a degree plan for this career.
 - What license or certification is necessary for this career?
6. Name one career from the health informatics pathway of health care.
 - Describe the working environment, job outlook, and salary.
 - Name one educational institution that offers a degree plan for this career.
 - What license or certification is necessary for this career?
7. Name one career from the support services pathway of health care.
 - Describe the working environment, job outlook, and salary.
 - Name one educational institution that offers a degree plan for this career.
 - What license or certification is necessary for this career?
8. Name one career from the biotechnology research and development pathway of health care.
 - Describe the working environment, job outlook, and salary.
 - Name one educational institution that offers a degree plan for this career.
 - What license or certification is necessary for this career?
9. What do you consider to be the three most important characteristics of the careers you chose?
10. Of the careers listed, which one interests you the most? Where can you receive additional information about this career?

Career Shoebox Activity Guidelines

- I. Select and research a chosen health care career.
- II. Produce a small career display using an adult size shoebox.
- III. Design an outside cover or shell that relates to the chosen career.
- IV. Compile work samples to represent the chosen career.
- V. Develop an oral report to describe the chosen career, using the shoebox as a visual aid.

Teacher Note: The career shoebox should include the following information:

- Adult-sized shoebox, decorated to illustrate the job description of the career chosen (shoebox decorated as an ambulance for EMT-Paramedic),
- A minimum of five work samples depicting the career (working environment, equipment or technology used, etc)

Career Bulletin Board

Select and research a chosen health career opportunity and create a bulletin board, placing emphasis on the working environment, equipment used, possible clothing and uniform, and other items that may be used to illustrate a career option.

Materials: Any source(s) of career exploration.

Access to butcher paper or poster board, construction paper, markers, glue, and scissors;

Large bulletin board.

Writing Rubric

Student: _____ Date: _____

Scoring criteria	4. Excellent	3. Good	2. Needs Some Improvement	1. Needs Much Improvement	N/A
The writing has all required parts, from introduction to conclusion, in smooth transition.					
The writing is interesting, supportive, and complete.					
The writing demonstrates that the writer comprehends the writing process.					
Accurate spelling, grammar, and punctuation.					
The content of paragraphs emphasizes appropriate points.					
The writer shows an understanding of sentence structure, paragraphing, and punctuation.					
All sources and references are clearly and accurately documented.					

NOTE: N/A represents a response to the performance which is "not appropriate."

Project Rubric

Student: _____ Date: _____

Scoring criteria	4. Excellent	3. Good	2. Needs Some Improvement	1. Needs Much Improvement	N/A
Clearly/effectively communicates the main idea or theme.					
Reflects the application of critical thinking.					
Provides information clearly, in an organized and thoughtful manner.					
Strong examples used to describe the theme or objective.					
Illustrations follow a logical reasoning.					
Each image and font size is legible to the entire audience.					
No spelling, grammar, or punctuation errors.					

NOTE: N/A represents a response to the performance which is "not appropriate."

Shoebox Rubric

Student: _____ Date: _____

Scoring Criteria	5 Excellent	4 Good	3 Needs Some Improvement	2 Needs Much Improvement	1 Not Appropriate
Clearly and effectively communicates the main idea or theme.					
The presenter's voice is clear, enthusiastic and loud enough to hear with no distractions.					
The presenter answers questions thoroughly and clearly.					
Holds audience attention and maintains eye contact.					
Visual aids are clear and add to the presentation.					
Visual Appeal of Shoebox					
Work Sample 1					
Work Sample 2					
Work Sample 3					
Work Sample 4					
Work Sample 5					