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| Lesson Name: | Do you want to work in a healthcare career? |
| Grade Level(s): | Human Anatomy & Physiology |
| Goal/Objective(s): | * Students will be able to explain several different career opportunities in the health care field. * They will understand the education that is required for each career. |
| Standard(s): | |  |  | | --- | --- | | S.HS.HAP.5 | relate how bone tissue is important to the development of the human skeleton. | | S.HS.HAP.6 | correlate the structure and function of the elements of the skeletal system:   * bone * articulations * insertions. | | S.HS.HAP.7 | model the mechanisms of muscular contraction on the cellular and molecular levels. | | S.HS.HAP.8 | integrate the skeletal, muscular and nervous systems to the functioning of the organism. | | S.HS.HAP.9 | model the muscular system including:   * locations * origins * insertions * muscle groups * types of muscles. | | S.HS.HAP.10 | classify the various types of neurons emphasizing the relationship of structure and function. | | S.HS.HAP.11 | model the mechanism of a nerve impulse at the cellular and molecular levels. | | S.HS.HAP.12 | compare and contrast the parts and functions of the central and peripheral nervous system including the autonomic portions. | | S.HS.HAP.13 | apply the structure of the ear and eye to their function/dysfunction in relation to environmental perception. | | S.HS.HAP.14 | apply the action of specific enzymes to their roles in bodily functions. | | S.HS.HAP.15 | incorporate the role of endocrine glands and their hormones into the overall functions and dysfunctions of the body. | | S.HS.HAP.16 | analyze the role of components and processes of the digestive system in supplying essential nutrients. | | S.HS.HAP.17 | explain how structures of the respiratory system are essential to cellular respiration, gas exchange and communication. | | S.HS.HAP.18 | illustrate the structures of the circulatory and lymphatic systems and the function of blood to the role of:   * transportation * cellular support * defense. | | S.HS.HAP.19 | compare the compatibility of blood types and assess the molecular basis for blood functions. | | S.HS.HAP.20 | integrate the functions of the excretory system to the maintenance of the other body systems. | | S.HS.HAP.21 | compare and contrast the structure and function of male and female reproductive systems. | | S.HS.HAP.22 | outline the events of reproduction for the formation of gametes through fertilizations and embryological development. | | S.HS.HAP.23 | assess the role of components of the immune system in defending the body. | |
| Instructions: | Students will be assigned a partner. Partners will randomly be assigned a human body system. They will then be given the master list of careers associated with the system. Each student will then use cfwv.com to complete the career information worksheet for at least 3 jobs in the system they have been assigned. They must find one job that requires less than a bachelor’s degree, one that requires a bachelor’s degree and one that requires more than a bachelor’s degree. They may use careers off the list or any other career they find that is associated with their assigned system. Students will then create a slide show of the careers they researched. The slide show should be their careers and those of their partners. |
| Materials: | Computers  Worksheets |
| CFWV Tools Used: | Career planning-Explore Careers |
| Assessment | Worksheets and Slide show |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_Pd.\_\_\_\_\_\_\_

Career \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What does this job entail?

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Education requirements:

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What schools in WV could you attend? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the employment outlook in WV?

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What is the national employment outlook?

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What is the salary range? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Do you think you would be interested in this career? Why or why not?

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PowerPoint- Human Systems Careers

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| **Category** | **Exemplary**  **Points Possible:\_\_\_\_\_\_\_** | **Above Average**  **Points Possible:\_\_\_\_\_\_\_** | **Average**  **Points Possible:\_\_\_\_\_\_\_** | **Below Average**  **Points Possible:\_\_\_\_\_\_\_** |
| **What do the careers entail?** | Very in-depth, easy to understand and is complete and accurate | Explains the careers in some depth and easy to understand | Very general overview of the career. Not all explanations are easy to understand | Does not explain the career duties |
| **Education requirements** | Completely explains the education requirements of all careers and includes the WV schools that offer this education | Explains the majority of the education requirements for the careers and WV schools that offer these majors | Is missing some explanations of the education requirements or if the majors are offered in WV | Does not explain education requirements |
| **Job outlook and salary** | Includes the state and national job outlook and salaries in all careers | Includes most of the state and national job outlook and salaries in the careers | Is missing state and national job outlook and salaries in a lot of the careers | Does not include job outlook or salaries |
| **Use of Graphics** | All graphics are attractive (size and colors) and support the topic of the presentation. | A few graphics are not attractive but all support the topic of the presentation. | All graphics are attractive but a few do not support the topic of the presentation. | Several graphics are unattractive AND detract from the content of the presentation. |
| **Spelling and Grammar** | Presentation has no misspellings or grammatical errors. | Presentation has 1-2 misspellings, but no grammatical errors. | Presentation has 1-2 grammatical errors but no misspellings. | Presentation has more than 2 grammatical and/or spelling errors. |
| **PowerPoint Accuracy** | All content throughout the presentation is accurate. There are no factual errors. | Most of the content is accurate but there is one piece of information that seems inaccurate. | The content is generally accurate, but one piece of information is clearly inaccurate. | Content confusing or contains more than one factual error. |
| **Presentation** | Members spoke at a good rate, volume and with good grammar.  They maintained eye-contact while using, but not reading their notes. | Members spoke a little faster or slower than necessary, or too quietly or loudly.  They used acceptable grammar.  They maintained eye-contact, but relied too much on their notes. | Members spoke at a good rate and volume, but used poor grammar.  They relied heavily on their notes. | There was no presentation |

Systems

* Skeletal
  + Chiropractor
  + Radiologist
  + Orthopedic surgeon
  + Physical therapist
  + Orthotists and Prosthetists
  + Biomedical Engineers
  + Podiatrists
* Muscular
  + Physical therapist
  + Exercise physiology
  + Sports medicine
  + Nuclear Technicians
  + Acupuncturists
  + Massage Therapists
* Nervous
  + Neurologist
  + Psychophysics
  + Electroneurodiagnostic Technician
  + Behavioral/cognitive neuroscientist
  + Clinical neuroscientist
  + Developmental neuroscientist
  + Neuroanatomist
  + Neurobiologist
  + Neurochemist
  + Neurophysiologist
  + Neuropsychologist
  + Neurosurgeon
  + Neuropharmacologist
  + Neuropathologist
* Special Senses
  + Ophthalmologist
  + Audiology
  + Sign Language Interpreter
  + Optometrist
  + Orthoptist
  + Optician
  + Speech pathologist
  + Hearing Aid Specialists
* Respiratory
  + Respiratory Therapists
  + Respiratory Therapy Technicians
  + Pulmonologist
  + Oncologist
* Digestive
  + Dietetic Technicians
  + Dietitians and Nutritionists
  + Endoscopy Technicians
  + Dental hygienist
  + Dentist
  + Gastroenterologist
  + Proctologist
  + Hepatology

Circulatory

* + Cardiovascular Technologists and Technicians
  + Diagnostic Medical Sonographers
  + Phlebotomist
  + Cardiologist
  + EMTs and Paramedics
  + Electroneurodiagnostic Technicians and Technologists
  + Perfusionist
  + Cardiovascular engineering
  + Electrocardiogram (EKG) Technician
  + Stress Technicians
  + Cardiac Telemetry
* Reproductive
  + Cytogenetic Technologists
  + Genetic Counselors
  + Reproductive Endocrinologist
  + Gynecologists
  + Andrologists
  + Obstetricians
  + Breast Specialists
  + Lactation specialist
  + Neonatology Nurses
* Lymphatic & Immune
  + Immunologist
  + Lymphatic massage therapists
  + Hematologists
  + Pathologist
  + Clinical biochemistry
  + Histopathology
  + Medical microbiology and virology
  + Dermatologist
  + Allergist
  + Toxicologist
  + Epidemiologist
  + Bioinformatics
* Urinary
  + Urologist
  + Nephrologist
  + Transplant surgeon
  + Dialysis Patient Care Technician
  + Dialysis nurse
* Endocrine
  + Cytotechnologists
  + Endocrinologists
  + Certified Diabetes Educator
  + Laboratory Technician