

Lesson Plans on the
Cardiovascular System

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| Teacher: McNelly | Subject: Essentials of Healthcare | Week of: November 29 th - December 3 rd | | Summative Date: Dec 3 rd |
| | Standard | Learning Target (I can...) | Learning Activities | Success Criteria/ Formative Assessment |
| Monday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse. | 4:2 Identify and explain medical terms related to the cardiovascular and utilize when documenting in an electronic medical record. | Discussion/Intro to Cardiovascular System with PowerPoint 4:2 Using Canvas/PowerPoint online to complete the medical terminology related to the cardiovascular system (section 1 & section 2). Students will read the distributed Medical Scenario and complete electronic medical record forms using medical terminology. | Quick fire questions about medical terms Quiz will be given after completion of Learning Activities for a Summative Grade. |
| Tuesday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse. | 4:1 Analyze the basic structures and functions of the cardiovascular system. 4.5 Identify and describe the functions of the chambers, valves and vessels of the heart. | Discussion/Intro to Cardiovascular System with PowerPoint 4.1/4.5 Label diagram of Heart | 4.1/4.5 Responses to completed graphic organizer and results from Unit test (to be given later) 4.1 Smart board activity – class labels heart after individually completing diagram |
| Wednesday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse. | 4:1 Analyze the basic structures and functions of the cardiovascular system. 4.5 Identify and describe the functions of the chambers, valves and vessels of the heart. 4.7 Identify and trace the flow of blood through the heart, and | 4.1/4.5 Continue Label diagram of Heart 4.7 Introduce beginning flow of blood through heart. Discussion of Cardiovascular system with PowerPoint | 4.1/4.5 review labeling diagram of heart and give answers; go over flow of blood based on diagram |

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| | | provide distinction between the pulmonary and systemic circulation. | | |
| Thursday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse. | 4.1 see above, 4.5 see above 4.6 Distinguish difference in anatomy and pathology of blood vessels to include arteries, arterioles, capillaries, venules, and veins. | 4.1, 4.5, 4.6 Distribute Heart Assignment Sheet and have students complete (to be utilized as a partial study guide for test). | Quick fire questions after assignment |
| Friday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse. | 4.7 Identify and trace the flow of blood through the heart, and provide distinction between the pulmonary and systemic circulation. | <p>4.1, 4.5, 4.6, 4.7 Allow for completion of assignment sheets, then distribute the following materials to student: Heart Anatomy Assignment sheet.</p> <p>4.2 Administer quiz 1 for 4.2 element on medical terminology. (from last week's activity)</p> <p>4.7 Label the portions of the heart diagram, as well as tracing blood through the heart, with oxygenated and de-oxygenated blood displayed. (display a heart diagram on smart board for guidance)</p> <p>4.7 Complete the distributed sheet that distinguishes the difference of pulmonary and system circulation.</p> | <p>4.1, 4.5, 4.6 Correct answers from assignment sheet – will be utilized as a study guide for unit test to be administered after completion of elements.</p> <p>Answers to quiz. Quizzes will be graded for accuracy.</p> <p>4.7 Labeled diagram. Formative assessment will be next week as students are assessed on whether or not they can correctly trace the blood through the heart.</p> |

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*****Note:** Some assignments took more than one day to complete and schedule was adjusted accordingly.

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| Teacher: McNelly | Subject: Essentials of Healthcare | Week of: Dec 6 th – 10 th | | Summative Date: Dec 10 th |
| | Standard | Learning Target (I can...) | Learning Activities | Success Criteria/ Formative Assessment |
| Monday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse. | 4.3 Research common cardiovascular diseases, disorders/disorders including the pathophysiology, prevention, diagnosis and treatment (include any biomedical therapies) that may be utilized in each. | 4.3 Discussion of cardiovascular diseases and research topics are undergone. Show videos on cardiovascular pathologies https://www.khanacademy.org/science/health-and-medicine/healthcare-misc/v/heart-disease-and-heart-attacks | Discussion and quick fire questions about cardiovascular disorders. |
| Tuesday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse. | 4.3 Research common cardiovascular diseases, disorders/disorders including the pathophysiology, prevention, diagnosis and treatment (include any biomedical therapies) that may be utilized in each. | 4.3 Continue discussion of cardiovascular diseases and research topics are undergone. Show videos on cardiovascular pathologies https://www.khanacademy.org/science/health-and-medicine/healthcare-misc/v/heart-disease-and-heart-attacks | Discussion and quick fire questions about cardiovascular disorders. |
| Wednesday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse. | 4.4 Describe the components of blood, and the functions of each. | 4.4 Discussion of different components of blood, as well as what each component of blood does. | Discussion and quick fire questions over blood components. |
| Thursday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate | 4.5 Identify and describe the functions of the chambers, valves and vessels of the heart. 4.7 Identify and trace the flow of blood through the heart, and | 4.5/4.7 Administer quiz for 4.5 and 4.7 elements on labeling and the flow of blood ion the heart. (from last week's activity) | Answers to quiz |

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| | and monitor blood pressure and pulse. | provide distinction between the pulmonary and systemic circulation. | | |
| Friday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse. | 4:2 Identify and explain medical terms related to the cardiovascular and utilize when documenting in an electronic medical record. | 4.2 Administer quiz 2 for 4.2 element on medical terminology. (from last week's activity) | Answers to quiz. Quizzes will be graded for accuracy. |

*****Note:** Some assignments took more than one day to complete and schedule was adjusted accordingly.

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| Teacher: McNelly | Subject: Essentials of Healthcare | Week of: Dec 13 th – 17 th | | Summative Date: Dec 17 th |
| | Standard | Learning Target (I can...) | Learning Activities | Success Criteria/ Formative Assessment |
| Monday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system | 4.9 Demonstrate measuring and recording blood pressure and pulse, and identify abnormal results. | 1. Class discussion on introduction to blood pressure – knowing what happens during systole and diastole (Note: in handouts and notes) 2. Smartboard Activity – show how to read gauge, then have students complete virtual lab over reading and measuring blood pressure. http://www.practicalclinicalskills.com/ta king-blood-pressure.aspx | Answers on Assignment Sheet Smart board/virtual lab Activity |
| Tuesday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system | 4.9 Demonstrate measuring and recording blood pressure and pulse, and identify abnormal results. | 1. Show demo video on procedure for taking a BP/along with teacher demonstration – discussion with students of Normal vs. abnormal BP readings 2. Lab activity – students will practice measuring a pulse in a partner, as well as reading blood pressure on partners, with teacher assistance. (virtual students will do virtual blood pressure lab, cont'd) | Completed blood pressure/pulse readings on lab assignment. |
| Wednesday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system | 4.9 Demonstrate measuring and recording blood pressure and pulse, and identify abnormal results. | 1. Lab activity – students will continue to practice measuring a pulse in a partner, as well as reading blood pressure on partners, with teacher assistance. | Completed blood pressure/pulse readings on lab assignment. Teacher observation/then rubrics for peer/teacher evaluation (This will be an on-going process until students have mastered the skill) |

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| Thursday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system | 4.8 Demonstrate measuring and recording blood pressure and pulse, and identify abnormal results. | <p>4.8 Name the parts of the conduction system of the heart, and trace the impulses during initiation and conduction.</p> <p>4.8 For visualization show video from www.youtube.com/watch?v=7K2icszdxQc (Show video on heart conduction system before distributing Assignment Sheet)</p> <p>Go through Conduction PowerPoint to help students answer questions on the conduction pathway. Completion of ECG Assignment Sheet.</p> | Completion of ECG Assignment Sheet and review answers |
| Friday | HS-EHS-4: Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system | 4.1, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8 | Give exam for unit. | Summative Grade |

*****Note:** Some assignments took more than one day to complete and schedule was adjusted accordingly.