

# Unit 4: Cardiac Emergencies

Content Area: **Health**  
Course(s): **First Aid**  
Time Period: **1 marking period**  
Length: **2 Weeks**  
Status: **Published**

## Unit Overview

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In this unit students will acknowledge what signals to look for if you suspect a person is having a heart attack or has gone into cardiac arrest. Students will also learn how to care for a person having a heart attack and how to perform CPR, along with properly handling the AED in a cardiac arrest.

## Transfer

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Students will be able to independently use their learning to...

- Respond to emergency situations
- administer basic first aid to an injured person
- recognize the different types of injuries and how to care for them
- effectively respond to emergency situations

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For more information, read the following article by Grant Wiggins.

[http://www.authenticeducation.org/ae\\_bigideas/article.lasso?artid=60](http://www.authenticeducation.org/ae_bigideas/article.lasso?artid=60)

## Meaning

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## **Understandings**

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Students will understand that...

- Proper steps in performing CPR
- Recognize the symptoms of a person having a heart attack
- Correct technique in using the AED

## **Essential Questions**

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Students will keep considering...

- How often do they change the steps in performing CPR?
- How do I know when to use the AED?
- What steps would an individual take from preventing heart disease?

## **Application of Knowledge and Skill**

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### **Students will know...**

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Students will know...

- the signs of a heart attack
- correct technique in using an AED
- proper steps in performing CPR

## **Students will be skilled at...**

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Students will be skilled at...

- recognizing a person having a heart attack
- properly performing CPR
- proper procedures to follow the emergency action steps to activate the ems system
- knowing how and when to use the AED in a life-threatening situation

## **Academic Vocabulary**

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- \* CPR
- \* Cardiac arrest
- \* AED
- \* Airway
- \* Breathing
- \* Circulation

## **Learning Goal 1**

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Acknowledging risk factors that have the potential to cause coronary heart disease.

- Acknowledging risk factors that have the potential to cause coronary heart disease.

HPE.2.1.12.D.1

Determine the causes and outcomes of intentional and unintentional injuries in adolescents and young adults and propose prevention strategies.

HPE.2.1.12.D.CS1

Evaluating the potential for injury prior to engaging in unhealthy/risky behaviors impacts choices.

## **Target 2**

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Students will be able to recognize the signs and symptoms of a heart attack.

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- Students will be able to recognize the signs and symptoms of a heart attack.

## **Learning Goal 2**

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Students will be able to understand the importance of performing CPR in a life-threatening situation.

- Students will be able to understand the importance of performing CPR in a life-threatening situation.

HPE.2.1.12.D.6

Demonstrate first-aid procedures, including Basic Life Support and automatic external defibrillation, caring for head trauma, bone and joint emergencies, caring for cold and heat injuries, and responding to medical emergencies.

HPE.2.1.12.D.CS2

Applying first-aid procedures can minimize injury and save lives.

## **Target 1**

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Students will be able to identify the proper first aid care for a person who might be having a heart attack.

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- Students will be able to identify the proper first aid care for a person who might be having a heart attack.

## **Target 2**

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Students will be able to identify the proper technique in performing CPR to an infant and child.

- Students will be able to identify the proper technique in performing CPR to an infant and child.

## **Target 3**

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Students will be able to identify the proper techniques in performing CPR to an Adult.

- Students will be able to identify the proper techniques in performing CPR to an Adult.

## **Learning Goal 3**

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Students will gain an understanding on the importance of using the AED in a life-threatening situation.

- Students will gain an understanding on the importance of using the AED in a life-threatening situation.

HPE.2.1.12.D.6	Demonstrate first-aid procedures, including Basic Life Support and automatic external defibrillation, caring for head trauma, bone and joint emergencies, caring for cold and heat injuries, and responding to medical emergencies.
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HPE.2.1.12.D.CS2	Applying first-aid procedures can minimize injury and save lives.
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## **Target 1**

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Students will be able to recognize when the AED should be used when a victim is in cardiac arrest.

- Students will be able to recognize when the AED should be used when a victim is in cardiac arrest.

## **Target 2**

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Students will be able to demonstrate the proper steps in using the AED.

- Students will be able to demonstrate the proper steps in using the AED.

## **Target 3**

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Students will be able to recognize risk factors that can contribute to other injuries while using the AED.

- Students will be able to recognize risk factors that can contribute to other injuries while using the AED.

## **Learning Goal 4**

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Students will understand the importance of becoming an organ donor.

- Students will understand the importance of becoming an organ donor.

HPE.2.2.12.B.2	Evaluate the impact of individual and family needs on the development of a personal wellness plan and address identified barriers.
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HPE.2.2.12.C.2	Judge how individual or group adherence, or lack of adherence, to core ethical values impacts the local, state, national, and worldwide community.
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## **Summative Assessment**

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\* Notebooks

\* Quizzes

\* Tests

\* Projects

\* Benchmark

## **21st Century Life and Careers**

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CRP.K-12.CRP1	Act as a responsible and contributing citizen and employee.
CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP3	Attend to personal health and financial well-being.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP7	Employ valid and reliable research strategies.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP11	Use technology to enhance productivity.
CRP.K-12.CRP12	Work productively in teams while using cultural global competence.

## **Formative Assessment and Performance Opportunities**

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- \* Teacher observation
- \* Class participation
- \* Discussions
- \* Homework
- \* Notebook

## **Differentiation/Enrichment**

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- \* Modifications as per IEP/ 504 plans
- \* Google classroom resources (powerpoint, guided notes)
- \* Small group activities
- \* Reteaching opportunities in textbook
- \* Directed reading
- \* Inclusion strategies in textbook
- \* Motivating activities in textbook

## **Unit Resources**

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American Red Cross- First Aid/ CPR/ AED textbook

Topic related videos

Laptops

Partner work

Mannequin work

Topic Related Worksheets