



HEALTHCARE SCIENCE

COURSE: 25.564 Emergency and Disaster Preparedness

UNIT: 12.1 Public Health Considerations



INTRODUCTION

Annotation:

This unit will introduce students to public health concerns that may arise during or after a disaster and measures that can be taken to prevent any unnecessary public exposure.

Grade(s):

X	9 th
X	10 th
X	11 th
X	12 th

Time: Five 50 minute periods

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Additional Author(s):

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Students with Disabilities:

For students with disabilities, the instructor should refer to the student's IEP to be sure that the accommodations specified are being provided. Instructors should also familiarize themselves with the provisions of Behavior Intervention Plans that may be part of a student's IEP. Frequent consultation with a student's special education instructor will be beneficial in providing appropriate differentiation.



FOCUS STANDARDS

GPS Focus Standards:

HS-EDP- 6: Disaster Medical Assistance. Students will demonstrate the ability to identify and treat injuries of victims in a disaster or emergency situation.

- a. Take appropriate sanitation measures to protect the public health.

GPS Academic Standards:

ELA11SLV1. The student participates in student-to-teacher, student-to-student, and group verbal interaction.

ELAALRC3. The student acquires new vocabulary in each content area and uses it correctly.

ELA11W3. The student uses research and technology to support writing.

National / Local Standards / Industry / ISTE:



UNDERSTANDINGS & GOALS

Enduring Understandings:

Students will understand d the public health concerns that can arise from disasters and how sanitation and hygiene can protect the public.

Essential Questions:

- Why is hygiene so important during disaster?
- How can sanitation measures impact public health?
- Why do disasters increase the concern for public health?

Knowledge from this Unit:

- How hygiene and sanitation will help protect the public?
- What public health concerns exist during or following a disaster?

Skills from this Unit:

- How to maintain hygiene and sanitation



ASSESSMENT(S)

Assessment Method Type:

- ☐ Pre-test
- ☐ Objective assessment - multiple-choice, true- false, etc.
 - ☐ Quizzes/Tests
 - ☐ Unit test
- ☒ Group project
- ☐ Individual project
- ☐ Self-assessment - May include practice quizzes, games, simulations, checklists, etc.
 - ☐ Self-check rubrics
 - ☐ Self-check during writing/planning process
 - ☐ Journal reflections on concepts, personal experiences and impact on one's life
 - ☐ Reflect on evaluations of work from teachers, business partners, and competition judges
 - ☐ Academic prompts
 - ☐ Practice quizzes/tests
- ☐ Subjective assessment/Informal observations
 - ☐ Essay tests
 - ☐ Observe students working with partners
 - ☐ Observe students role playing
- ☐ Peer-assessment
 - ☐ Peer editing & commentary of products/projects/presentations using rubrics
 - ☐ Peer editing and/or critiquing
- ☐ Dialogue and Discussion
 - ☐ Student/teacher conferences
 - ☐ Partner and small group discussions
 - ☐ Whole group discussions
 - ☐ Interaction with/feedback from community members/speakers and business partners
- ☐ Constructed Responses
 - ☐ Chart good reading/writing/listening/speaking habits
 - ☐ Application of skills to real-life situations/scenarios
- ☐ Post-test

Assessment(s) Title:

Public Health Presentation

Assessment(s) Description/Directions:

The students will research a previous disaster and the public health concerns that resulted. They will create a preventative plan based on information from the previous disaster.

Attachments for Assessment(s):

- Public Health Presentation
- Public Health Presentation Rubric



LEARNING EXPERIENCES

Sequence of Instruction

Lesson 1

1. Identify the Standards. Standards should be posted in the classroom for each lesson.

HS-EDP- 6: Disaster Medical Assistance. Students will demonstrate the ability to identify and treat injuries of victims in a disaster or emergency situation.

2. Review Essential Questions.

- Why is hygiene so important during disaster?
- How can sanitation measures impact public health?
- Why do disasters increase the concern for public health?

3. Identify and review the unit vocabulary.

Vocabulary:

- Public health
- Hygiene
- Sanitation
- Water purification

Lesson 1

Introduce this topic by reminding the group that when disaster victims are sheltered together for treatment, public health becomes a concern. Measures must be taken, both by CERT members and programmatically, to avoid the spread of disease.

Present multimedia presentation.

Lesson 2

1. Identify the Standards. Standards should be posted in the classroom for each lesson.

2. Review Essential Questions.

3. Identify and review the unit vocabulary.

4. Divide students into groups of 3-4.

5. Distribute Public Health Presentation directions.

***Allow approx. 2 class days for the groups to prepare the presentation and then allow time for presentations.

Attachments for Learning Experiences:

- Multimedia presentation
- Public Health Presentation directions

Notes & Reflections:

CULMINATING PERFORMANCE TASK (Optional)

Culminating Unit Performance Task Title:

Public Health Presentation

Culminating Unit Performance Task Description/Directions/Differentiated Instruction:

The students will research a previous disaster and the public health concerns that resulted. They will create a preventative plan based on information from the previous disaster.

Attachments for Culminating Performance Task: Please list.

Public Health Presentation

Public Health Presentation Rubric



UNIT RESOURCES

Web Resources:

<http://www.bt.cdc.gov/recentincidents.asp>

<http://www.bt.cdc.gov/disasters/>

Attachment(s):

Materials & Equipment:

What 21st Century Technology was used in this unit:

<input type="checkbox"/>	Slide Show Software	<input type="checkbox"/>	Graphing Software	<input type="checkbox"/>	Audio File(s)
<input type="checkbox"/>	Interactive Whiteboard	<input type="checkbox"/>	Calculator	<input type="checkbox"/>	Graphic Organizer
<input type="checkbox"/>	Student Response System	<input type="checkbox"/>	Desktop Publishing	<input type="checkbox"/>	Image File(s)
<input type="checkbox"/>	Web Design Software	<input type="checkbox"/>	Blog	<input type="checkbox"/>	Video
<input type="checkbox"/>	Animation Software	<input type="checkbox"/>	Wiki	<input type="checkbox"/>	Electronic Game or Puzzle Maker
<input type="checkbox"/>	Email	<input type="checkbox"/>	Website		