

Grade 8 - CEH-1 Community/ Environmental Health 2020 Virginia SOLs

Grade 10 Sample Lesson Plan: Environmental Health and Crisis Management

Objectives/Goals

• Students will apply learnings about environmental health and natural disasters to the design of crisis management and health improvement plans.

Materials

• Internet access and/or printouts of information, handouts

Steps

Environmental Health Research

- Assign students to engage in internet research (e.g., visit CDC's Division of Environmental Health Hazards and Health Effects https://www.cdc.gov/nceh/ehhe/ as a launching point) and develop a one page poster/report/ infographic (e.g., https://piktochart.com) to address the following:
 - What are some influences the environment has on the individual?

- How does the environment affect a person's health status, quality of life, and risk of death
- O How can these risks be reduced?
- What role does the health sector play in addressing environmental health concerns?
- o What role do environmental health agencies play?
- What role does the business sector and industry play?
- o Identify at least one goal for improving environmental health

Emergency PrepareDness and Crisis Management

- Implement the lesson plans and utilize the handouts included in FEMA's Be a Hero Youth Emergency Preparedness Guide for Grades 9-12, including Lesson 1: Know Your Disasters and Lesson 2: The Adventures of Disaster Preparedness.
- Alternatively, have a discussion with students about the life threatening situations (e.g., injury, violence, dehydration, poisoning, disease) that can result from natural disasters and other public safety emergencies (e.g., fires, earthquakes, tornados, hurricanes, riots, disease outbreaks). Talk to students about the importance of being prepared for emergencies, including first aid and CPR training, and general disaster/emergency preparedness: gathering a 3 day supply of food, water and emergency supplies; making a family communication and disaster plan; being informed about disasters that can happen in the area.
- Have students visit https://emergency.cdc.gov/preparedness/ and https://emergency.cdc.gov/preparedness/ and https://emergency.cdc.gov/preparedness/ and https://emergency.cdc.gov/preparedness/ and https://emergency.cdc.gov/preparedness/ and https://emergencies/be-red-cross-ready/make-a-plan for instructions and assign students to:
 - o Develop an emergency preparedness kit.
 - o Develop a family communication plan.
 - Develop a family disaster plan.
- To further educate students about the resource agencies involved in disaster
 preparedness and emergency response invite representatives from emergency
 management, environmental quality, health and public safety agencies and organizations
 to present and/or donate supplies for students to prepare emergency kits.

Assessment Idea

• Evaluate student completion of requested research and reports and products (i.e., kits, plans).

References

- FEMA- Youth Emergency Preparedness (9-12): https://www.fema.gov/media-library-data/ac2a3fd06796f89fcd284ddb3fea4797/FEMA HS TG 082613 508.pdf
- Allergy and Asthma Foundation http://fightthecauseofallergy.org
- CDC Environmental Hazards and Health Effects https://www.cdc.gov/nceh/ehhe/
- CDC Emergency Preparedness https://emergency.cdc.gov/preparedness/

Health Smart Virginia Sample Lesson Plan

- EPA Games and Quizzeshttps://www.epa.gov/students/games-quizzes-and-more
- EPA Learning and Teaching about the Environment: https://www.epa.gov/students
- Global Asthma Report http://www.globalasthmareport.org/burden/causes.php
- Global Asthma Network
 - http://www.globalasthmanetwork.org/patients/causes.php
- HealthyPeople.Gov Environment https://www.healthypeople.gov/2020/topicsobjectives/topic/environmental-health
- NIEHS- Your Environment- Your Health: http://www.niehs.nih.gov/health/scied/tea chers/
- OSU Hydroville Curriculum Project- Problem-based environmental health curricula, resources, and events: http://blogs.oregonstate.edu/hydroville/
- WHO Environmental Health http://www.who.int/topics/environmental-health/en/

Lesson Plan

 FEMA Be A Hero Youth Emergency Preparedness Guide https://www.fema.gov/media-library-data/ac2a3fd06796f89fcd284ddb3fea4797/FEMA_HS_TG_082613_5 08.pdf

Articles and Videos

- "Environmental Issues Involving Global Warming" -8th Grader TED Talk https://www.youtube.com/watch?v=PRJvuA5bW9s
- National Geographic "Allergy Misery"
 "http://environment.nationalgeographic.com/environment/global-warming/allergies-misery/
- Scientific American: "The Link Between the Environment and Health" https://www.scientificamerican.com/article/environment-and-our-health/
- "This is Environmental Health" https://www.youtube.com/watch?v=zmnEtCGDXMg