

Grade 8 - HP-2 Physical Health Disease Prevention/ Health Promotion 2020 Virginia SOLs

Grade 8 Sample Lesson Plan: Chronic Disease Prevention

SOLs

- Explain the roles of preventive health measures, immunization, and treatment in disease prevention.
- Identify pathogenic, genetic, age, cultural, environmental, and behavioral factors that influence the degree of risk of diabetes, heart disease, and stroke.
- Analyze the risk factors associated with communicable and noncommunicable diseases.
- Describe personal and family preventive health measures, including immunizations, nutrition, physical activity, and sleep, in preventing diabetes, heart disease, stroke, and other chronic diseases.
- Develop practical solutions for removing barriers to physical activity and healthy food choices.
- Develop a strategy to prevent diabetes, heart disease, stroke, and other chronic diseases and conditions.
- Analyze opportunities for community service.

Objectives/Goals

• Students will understand the difference between communicable and non-communicable diseases, be able to identify risk factors and preventive measures, and be able to make recommendations to improve community health.

Materials

- Internet access,
- Background information materials
- Worksheets
- Community advocacy letter templates

Procedure

Understanding Chronic Disease Risk and Prevention

• Introduce students to the differences between communicable and noncommunicable diseases. Communicable disease are spread fairly quickly from individual to another as a result of germs, viruses, etc. and non-communicable (chronic) diseases develop over time, are not spread between people. Chronic diseases can be and can be prevented. In three ways.

- 1. Medical screening tests (e.g., mammograms) for early identification (e.g. certain cancers)
- 2. Immunizations or vaccinations. Some cancers are caused by viruses and can be prevented by vaccines (e.g., human papilloma virus (HPV) and hepatitis)
- 3. Lifestyle behaviors such as avoiding tobacco, limiting alcohol use, protectingyour skin from the sun and avoiding indoor tanning, eating a diet rich in fruits and vegetables, keeping a healthy weight, and being physically active
- Provide students with definitions for the following terms

Pathogenic – e.g., causing or capable of causing disease (bacteria, virus, etc.)

Genetic - e.g., relating to genes or heredity

Culture – e.g., a way of life of a group of people (behaviors, beliefs, values, etc.); Often passed down from one generation to the next

Environment - e.g., the surroundings or conditions in which a person lives

Behavior - e.g., the way in which an individual acts or conducts him/herself

Risk factor- e.g., any attribute, characteristic or exposure of an individual that increases the likelihood of developing a disease or injury

Preventive measure - e.g., action taken to stop something from happening or arising

- Discuss how all of these influence the onset or progression of chronic diseases.
- Provide students with background information and/or access to various websites that have information on chronic disease causes, risk factors, and prevention measures.
- Have students complete worksheets to identify risk factors and preventive measures for various chronic diseases (see provided samples).

Community Prevention Activity

Assign students to work in teams to draft a letter to the principal or county
or city council to improve the community's health. The letter should identify
barriers to physical activity and healthy food choices in your school or
community and proposes solutions to remove those barriers.

Additional resources are provided in the references below.

Assessment Idea

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• Evaluate student participation in discussion, and teamwork, accuracy and completeness of assignments.

References

- AHA Our Challenge: A Look At the Obesity Epidemic https://www.heart.org/idc/groups/heart-public/@wcm/@fc/documents/downloadable/ucm_4 52021.pdf
- AHA What or Who Influences Your Food Choices https://www.heart.org/idc/groups/heart-public/@wcm/@global/documents/downloadable/ucm_3 14238.pdf
- CDC Chronic Disease Prevention Program https://www.cdc.gov/chronicdisease/
- Place Matters Lesson
 http://www.unnaturalcauses.org/assets/uploads/file/Place Matters Lessons.pdf
- Communicable Disease Lesson Plan Danny Clark www.dannyclark10.weebly.com/uploads/1/2/2/1/12211660/health lp show case.docx
- Communicable and Non Communicable Diseases Lesson Plan https://www.bcpss.org/webapps/cmsmain/webui/institution/CURRICULU M/Health
- Communicable and NonCommunicable Diseases PPT Presentation https://sharemylesson.com Food Span -Johns Hopkins Center for a Livable Future: http://foodspanlearning.org/
- Glencoe Online Learning Center Unit 1, Lesson 4 Analyzing Influences on Health http://www.warrenkyschools.org/userfiles/2798/Classes/16329/lesso
- Central Non-Communicable Diseaes Research Lesson Idea www.pecentral.org
- PE Central Non or Communicable Disease Lesson Plan www.pecentral.org

Health Smart Virginia Sample Lesson Plan	Grade 8 – Unit 2						
Handout The next page includes a handout for the lesson. The handout is designed for print use only.							

Sample Student Worksheet # 1

Risk Factors

Instruction: For each chronic disease identified in the left column below, identify at least one risk factor for each of the 6 categories of risk.

Chronic Disease	Pathogens	Genetic/ Heredity	Age	Culture (Social)	Physical Environment	Individual Behaviors
Cancer Type:	e.g., Human Papilloma Virus (HPV)	e.g,, Female w/ Family History of Breast and Cervical Cancer	e.g., Over 30	e.g., Family members smoke	e.g., No sidewalks to walk	e.g., High Fat Diet
Heart Disease/ Stroke						
Diabetes						
Arthritis						
Asthma						
Communicable Disease Type:						

Student Worksheet #2

Individual Preventive Measures

Instruction: For each chronic disease, research and identify at least one individual prevention strategy for each of the 6 categories below.

Chronic Disease	Pathogens	Genetic/ Heredity	Age	Culture (Social)	Physical Environment	Individual Behaviors
Cancer Type:	e.g., Keep immunizatio ns up to date. Reducing transmission through behavior change	e.g., Letting doctor know my risk and having regular screenings	e.g., Having age appropri ate medical checkups	e.g., Contacting 1- 800-Quitline for family smoking cessation resources	e.g., Exercising to home videos	e.g., Following USDA guidelines to improve nutrition
Heart Disease/ Stroke	onange	Servenings				
Diabetes						
Arthritis						
Asthma						
Communicable Disease Type:						