

E-Lesson: Health Equity

Grades 7-12

Lesson Plan	
Description	Materials
In this four-part lesson, students will learn all about health equity, starting by walking through the "seeing over the fence" analogy to understand how equity is different from equality. They will then develop further context for this issue by examining vaccine inequity as a case study. In part 3, one of Science North's Indigenous Interns interviews a nurse at the Wikwemikong Health Centre on the challenges of achieving health equity in Indigenous communities. In the final section, the Many Nations, One Voice for Wellness team at Telus Spark will take students through a workshop on Dr. Christopher Emdin's "Science Genius" method with health equity as the theme. Students will learn how to put their thoughts, feelings and experiences about this complex issue into rap and song.	 A computer or laptop for each student OR classroom projector to work through as a class Headphones if students will complete separately The E-lesson file - available online Writing materials
Big Ideas	Specific Expectations
 Part 1: What is Health Equity? Equity vs Equality Meaning of health equity and inequity Definition and examples of the social determinants of health and their relation to health inequity Part 2: Inequity Case Study: Vaccination Pathogens, antibodies, and how vaccines help our immune system Impact of vaccination on public health Meaning of and reasons for vaccine inequity 	 Grade 7 A3.2 investigate how science and technology can be used with other subject areas to address real-world problems. Grade 8 A3.2 investigate how science and technology can be used with other subject areas to address real-world problems. B1.2 analyse beneficial and harmful effects of developments in cell biology and associated emerging technologies on human health and the environment, while taking different perspectives into consideration.

Science North is an agency of the Government of Ontario and a registered charity #10796 2979 RR0001

Public Health Agency of Canada

Agence de la santé a publique du Canada

The views expressed herein do not necessarily represent the views of the Public Health Agency of Canada



SUDBURY, ONTARIO, CANADA

Part 3: Health Equity in Indigenous	
communities	Grade 9
 Communities Causes and impact of health inequity for Indigenous people Efforts being made to combat inequities and increase access to culturally appropriate healthcare Steps that still need to be taken to ensure Indigenous people have better healthcare access, experiences and outcomes Part 4: "Science Genius" Workshop Basics of bars and beats Writing process and tips Health equity rap performance 	 Grade 9 A2.3 analyse how the development and application of science is economically, culturally, and socially contextualized, by investigating real-world issues Grade 10 B1.3 describe public health strategies related to systems biology (e.g., cancer screening and prevention programs; vaccines against the human papillomavirus [HPV] and measles, mumps, and rubella [MMR]; AIDS education), and assess their impact on society B3.4 explain the general function of some of the systems in the human body (e.g., the function of the circulatory system is to transport materials through the body; the function of the digestive system is to absorb nutrients; the function of the respiratory system is to bring oxygen into and remove carbon dioxide from the body)
	Grade 11 B1.1 evaluate the effectiveness of medical devices and technologies that are intended to aid cellular functions or processes (e.g., insulin infusion pump, chemotherapy) C3.5 describe how different viruses, bacteria, and fungi can affect host organisms, and how those effects are normally treated or prevented (e.g., hepatitis viruses can damage the liver, but vaccinations can prevent infections; streptococcus bacteria can cause respiratory infections, which are treated with antibiotics; ringworm is a fungal infection of the skin, treated with fungicides)

Sciencenorth.ca/schools

Science North is an agency of the Government of Ontario and a registered charity #10796 2979 RR0001

With funding from:

Public Health Agency of Canada

Agence de la santé da publique du Canada

The views expressed herein do not necessarily represent the views of the Public Health Agency of Canada



Introduction

Not everyone is born and raised with the same chances to obtain their best health. Some have inherent advantages while others face barriers. Health inequity is a great source of injustice in our world today, and we need people who understand this issue in all areas of our society. Exploring the many factors that impact one's chances at good health validates the experiences of different students, raises awareness of different challenges, and helps us all have more compassion for each other.

Action

1. Decide whether there is capacity for students to work through lesson on individual devices/in pairs or whether lesson will be done as a class.

Consolidation/Extension

If students feel comfortable, discussions can be had about their own experiences and knowledge of health equity in real life. They can take their understanding and interpretation of the concepts in this lesson and put them into art. Depending on the student, they may feel comfortable to take this further and perform their creation, or they may choose to simply create.

Accommodations/Modifications	Assessment
• If internet connection is a concern:	Students can be graded on their artistic
Click on the button to download	creations on the topic of health equity.
lesson to device, so it can be used	They can follow the Science Genius
offline	workshop to write a rap, or another art
• In the top right corner, there is a tab	form such as a song, a drawing, a poem,
labelled "captions" where transcripts	a comic or an essay. Depending on the
of each voiceover can be found	student, they may feel comfortable
	taking this further and performing their
	creation or choose to simply create.

Additional Resources

Feedback survey https://survey.alchemer.com/s3/7094497/IPF-Teacher-Student-Evaluation Kids Boost Immunity Lessons on Global Inequality: https://kidsboostimmunity.com/articles/unitplan-global-inequality-6-8

Science Genius Method Information: https://hiphoped.com/science-genius/

Sciencenorth.ca/schools

Science North is an agency of the Government of Ontario and a registered charity #10796 2979 RR0001

With funding from:

Public Health Agency of Canada

Agence de la santé publique du Canada

The views expressed herein do not necessarily represent the views of the Public Health Agency of Canada



Sciencenorth.ca/schools

Science North is an agency of the Government of Ontario and a registered charity #10796 2979 RR0001

With funding from:

Public Health Agency of Canada

Agence de la santé la publique du Canada

The views expressed herein do not necessarily represent the views of the Public Health Agency of Canada

4