CRAAP Evaluation of Kids Boost Immunity Sources

All lessons are co-developed by a team of public health immunization specialists, experienced teachers, and curriculum specialists. We also encourage teachers and students to provide feedback, to help us improve the learning experience wherever possible.

All of the sources used for the lessons on the Kids Boost Immunity (KBI) website are reliable, sourced from educational libraries, and government and non-government health organizations - provincial, federal, and international. There is an occasional video resource that is from a smaller organization, however, these have been thoroughly vetted to ensure not-for-profit status, that educational use of the video is permitted, and that the information provided is age-appropriate.

This document provides an evaluation of all of the sources used in each of the KBI lessons, using the CRAAP method. CRAAP is an acronym standing for currency, relevance, authority, accuracy and purpose.

All KBI lessons are given the **CRAAP** test for textual, video and image sources of information, as outlined below:

- **C**urrency – the information needs to be up-to-date, within the last 5 years
- **R**elevance – each resource has to fit with the curriculum in the relevant topic area
- **A**uthority – the qualifications and experience of the developers need to make us trust that they have the knowledge to make the claims they do
- **A**ccuracy – the methods used to collect research data has to be scientific and has to include a large enough sample (number of people/countries in the study) so that the percentages and numbers shown can be trusted
- **P**urpose – the developers of each resource need to be government, non-profit organizations, and/or associated with providing quality educational resources, with no profit or cost associated

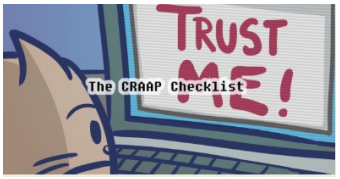
SOCIALS AND SCIENCE - EVALUATING SOURCES

1. The Power of the Story

Lesson: https://kidsboostimmunity.com/01-power-story
Creators: Non-profit government organization - BC Centre for Disease Control

✓ **Currency**	Created in 2018 and the information is still current.
✓ **Relevance**	3 short stories adapted from online submissions demonstrating how easy it is to create misinformation to instill fear and bias. Aim is to show the importance of evaluating sources.
✓ **Authority**	The article was written by specialists working in the field of immunization using examples of misinformation that are commonly found on the internet.
✓ **Accuracy**	The stories are created from real-life examples and reviewed by highly knowledgeable and specialized health professionals and experienced curriculum specialists/educators.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

2. The CRAAP Checklist



Lesson: https://kidsboostimmunity.com/02-craap-checklist
Creators: Non-profit government organization - BC Centre for Disease Control
Original author Sarah Blakeslee (2004) Developed for the Meriam Library, University of California, Chico
Video: Seneca Libraries – educational use allowed

✓ **Currency**	Created in 2013 and the information is still current.
✓ **Relevance**	CRAAP acronym is explained and graphically illustrated in a humorous way making it easy to understand for grades 5-12 students.
✓ **Authority**	The article was adapted from the original University of California document to work. well for high school students by curriculum specialists and experienced educators.
✓ **Accuracy**	The CRAAP checklist is being used across North America in schools for grades 5-12.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

SOCIALS – GLOBAL HEALTH INEQUALITY

1. Inequalities in Childhood Immunization

Lesson: https://kidsboostimmunity.com/01-inequalities-childhood-immunization
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals from UNICEF

✓ **Currency**	Created in 2018, information is still current.
✓ **Relevance**	Explains how health inequality can happens for people in some developing countries and explains how vaccines help, and students can help earn vaccines and save children from disease.
✓ **Authority**	Created by the research team of highly trained professionals in disease control, public health, and education using information from UNICEF that was created by medical doctors and health specialists.
✓ **Accuracy**	The information is based on factual data collected by medical health teams working in international organizations.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

2. Lack of Funding and Poverty

Lesson: https://kidsboostimmunity.com/02-lack-funding-poverty
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals from UNICEF

✓ **Currency**	Created in 2018, information is still current.
✓ **Relevance**	Explains how lack of funding blocks access to vaccines in developing countries in a number of ways, and the challenges people experience in some low income countries, with videos to help illustrate. Students can help earn vaccines and save children from disease.
✓ **Authority**	Created by a research team of highly trained professionals in disease control, public health, and education using information that was created by medical doctors and health specialists, working for UNICEF, as well as UNICEF videos.
✓ **Accuracy**	The information is based on factual data collected by medical health teams working in an international organizations.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

SOCIALS – GLOBAL HEALTH INEQUALITY cont.

3. Vaccine Misinformation

Lesson: https://kidsboostimmunity.com/03-vaccine-misinformation
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals from UNICEF

✓ **Currency**	Created in 2018, information is still current.
✓ **Relevance**	In developing countries where access to education and literacy level may be lower, misinformation is common, and successful efforts to teach the public about the benefits of the polio vaccine are presented, plus students learn how they can support children by earning vaccines.
✓ **Authority**	Created by a research team of highly trained professionals in disease control, public health, and education using information UNICEF that was created by medical doctors and health specialists and a video from UNICEF.
✓ **Accuracy**	Accurate information collected by medical professionals in the field and a professional film crew working on behalf of UNICEF to help share the story.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

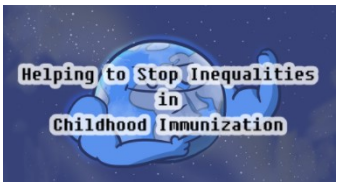
4. War and Violence

Lesson: https://kidsboostimmunity.com/04-war-and-violence
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals from UNICEF

✓ **Currency**	Created in 2018, information is still current.
✓ **Relevance**	Normal activities we take for granted like getting vaccinated becomes difficult when living in war, and health and medical teams face put themselves at risk trying to get children in Syria vaccinated for polio. Students support children by earning vaccines.
✓ **Authority**	Created by specialists in disease control and public health, illustrated with a video from National Geographic showing local footage of a medical immunization team .
✓ **Accuracy**	A true account in war-torn Syria.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

SOCIALS – GLOBAL HEALTH INEQUALITY cont.

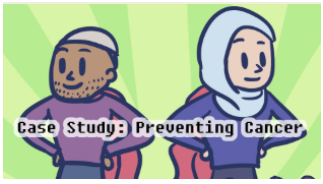
5. Solving Inequalities in Childhood Immunization Web article & video (3 mins)



Lesson: https://kidsboostimmunity.com/05-solving-inequalities-childhood-immunization
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals from UNICEF

✓ **Currency**	Created in 2018, information is still current.
✓ **Relevance**	Explains levels of government and describes how national and international organizations work cooperatively to solve inequalities in childhood immunization and students themselves help earn vaccines and save children from disease.
✓ **Authority**	Created by the research team of highly trained professionals in disease control, public health, and education, along with a UNICEF video about Gavi.
✓ **Accuracy**	The information and facts presented are well-supported from multiple highly credible organizations that are trustworthy and known to be "true".
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

6. Canada vs Rwanda Case Study: Preventing Cancer with a Vaccine



Lesson: https://kidsboostimmunity.com/05-solving-inequalities-childhood-immunization
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals from UNICEF

✓ **Currency**	Created in 2018, information is still current.
✓ **Relevance**	Canada is compared to a low-income developing country that has faced many challenges, yet has a higher HPV vaccine rate. Influence of misinformation is discussed and the importance of finding factual information.
✓ **Authority**	Created by the research team of highly trained professionals in disease control, public health, and education with a video produced by Gavi.
✓ **Accuracy**	The information and facts presented are well-supported from highly credible organizations.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

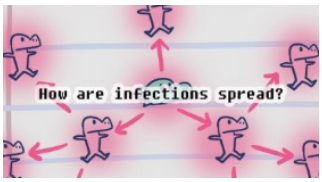
SCIENCE-THE BASICS: GERMS AND INFECTIONS

1. What Are Germs?

Lesson: https://kidsboostimmunity.com/01-what-are-germs
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals

✓ **Currency**	Created in 2018 and the information is still current.
✓ **Relevance**	Web article explains about germs and the body's natural defence, a relevant health curriculum topic.
✓ **Authority**	The article was written by public health nurses and other public health specialists working in the field of immunization.
✓ **Accuracy**	The information is provided by highly knowledgeable and specialized health professionals.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

2. How Are Infections Spread?

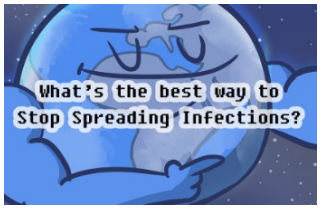


Lesson: https://kidsboostimmunity.com/02-how-are-infections-spread
Creators: Non-profit government organization - BC Centre for Disease Control

✓ **Currency**	Created in 2018 and the information is still current.
✓ **Relevance**	Web article explains how infections are spread, a relevant health curriculum topic.
✓ **Authority**	The article was written by public health nurses and other public health specialists working in the field of immunization.
✓ **Accuracy**	The information is provided by highly knowledgeable and specialized health professionals.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

SCIENCE-THE BASICS: GERMS AND INFECTIONS cont.

3. What's the Best Way to Stop Spreading Infections?



Lesson: https://kidsboostimmunity.com/03-whats-best-way-stop-spreading-infections
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals
Video: DoBugsNeedDrugs a community program promoting the wise use of antibiotics

✓ **Currency**	Web article created in 2018, information is still current. Video from 2009 but still relevant.
✓ **Relevance**	Web article explains how to prevent the spread of infections, a relevant health curriculum topic.
✓ **Authority**	The article was written by public health nurses and other public health specialists working in the field of immunization.
✓ **Accuracy**	The information is provided by highly knowledgeable and specialized health professionals interactive feature designed by a specialized science educator..
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

4. What Else Can Stop the Spread of Infection?

Lesson: https://kidsboostimmunity.com/04-what-else-can-stop-spread-infections
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals

✓ **Currency**	Created in 2018 and the information is still current.
✓ **Relevance**	Web article explains other ways to prevent the spread of infections, a relevant health curriculum topic.
✓ **Authority**	The article was written by public health nurses and other public health specialists working in the field of immunization.
✓ **Accuracy**	The information is provided by highly knowledgeable and specialized health professionals.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

SCIENCE-THE BASICS: GERMS AND INFECTIONS cont.

5. Hummingbird's Vaccine

Lesson available in 2019
Creators: Neqweyqwelsten School, Simpcw First Nation in BC

✓ **Currency**	Lesson in development. Based on a story created in 2009 with messages that are still relevant.
✓ **Relevance**	A modern story is presenting an indigenous perspective on the curriculum topic of vaccines.
✓ **Authority**	The lesson is based on a story written by Angela Semrick (health manager) in consultation with Rosemary Donald (Neqweyqwelsten School Management Team/Simpcw health Board), and illustrated by Neqweyqwelsten School Grade 1-4 students with Sharon Antoniak (creative/technical specialist) and teachers Cindy Lee Matthew and Judy Matthew.
✓ **Accuracy**	The information was reviewed by highly knowledgeable and specialized health professionals and educators.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

SCIENCE – THE BASICS: THE IMMUNE SYSTEM & VACCINES

1. What is the Immune System?

Lesson: https://kidsboostimmunity.com/01-basics-what-immune-system
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals

✓ **Currency**	Created in 2018 and the information is still current.
✓ **Relevance**	Web article explains the functions of white blood cells, a science curriculum topic.
✓ **Authority**	The article was written by public health nurses and other public health specialists working in the field of immunization.
✓ **Accuracy**	The information is provided by highly knowledgeable and specialized health professionals. Interactive feature designed by a specialized science educator.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

2. What Are Vaccines and How Do They Work?

Lesson: https://kidsboostimmunity.com/02-basics-what-are-vaccines-and-how-do-they-work
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals
Poster: Public Health Agency of Canada

✓ **Currency**	Created in 2018 and the information is still current.
✓ **Relevance**	Web article explains how vaccines are developed and provides statistics on the decline in rates of diseases because of vaccines, a science curriculum topic.
✓ **Authority**	The article was written by public health nurses and other public health specialists working in the field of immunization.
✓ **Accuracy**	The information is provided by highly knowledgeable and specialized health professionals. Interactive feature designed by a specialized science educator.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

SCIENCE – THE BASICS: THE IMMUNE SYSTEM & VACCINES cont.

3. What Vaccines Do You Need?

Lesson: https://kidsboostimmunity.com/04-what-vaccines-do-you-need
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals from UNICEF

✓ **Currency**	Updated in 2016 and the information is still current.
✓ **Relevance**	Provides graphs that show the development of vaccines for HiB (meningitis, etc), hepatitis B, measles rubella, tetanus.
✓ **Authority**	Created by the Public Agency of Canada.
✓ **Accuracy**	The data comes from the most recent research by leading experts.
✓ **Purpose**	To provide education for school-age children on how vaccines are developed for no cost.

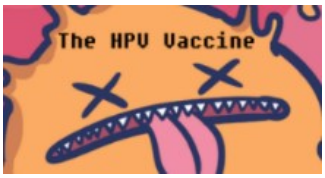
VACCINE lessons are for both SCIENCE BASICS and SCIENCE

4. Hepatitis B Vaccine

Lesson: https://kidsboostimmunity.com/05-hepatitis-b-vaccine
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals
Video:DSI: Disease Scene Investigation by ImmunizeBC

✓ **Currency**	Created in 2011 and the information but is still current.
✓ **Relevance**	Hepatitis B can be contagious and this video uses actors to show a situation where a high school student is suffering from Hep B, and they investigate what it is, how to treat it, and the vaccine to prevent Hep B.
✓ **Authority**	The article was written by public health nurses and other public health specialists working in the field of immunization.
✓ **Accuracy**	Created by ImmunizeBC.
✓ **Purpose**	To provide education for school-age children on the Hep B vaccine for no cost.

5. Human Papillomavirus (HPV) Vaccine

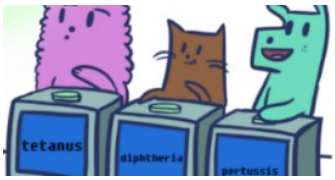


Lesson: https://kidsboostimmunity.com/06-hpv-vaccine
Creators: Department of Health & Human Services, State Government of Victoria, Australia and Canadian public health immunization specialists
Video: https://www.hpvvaccine.org.au

✓ **Currency**	Developed in 2016 and the information is still current.
✓ **Relevance**	Students explain factual information about the HPV vaccine and is relevant because BC students get the vaccine in grade 9.
✓ **Authority**	Created by the Cancer Council of Victoria, Australia.
✓ **Accuracy**	The information is based on recent research by leading experts within the Victoria State government in Australia, with a web article presenting HPV vaccine information for Canada
✓ **Purpose**	To provide education for school-age children on the HPV vaccine for no cost.

VACCINE lessons are for both SCIENCE BASICS and SCIENCE cont.

6. Diphtheria, Tetanus, Pertussis (DTP) Vaccine



Lesson: https://kidsboostimmunity.com/08-tdap-vaccine
http://immunehero.health.vic.gov.au/resource/dtp-video/
Creators: Department of Health & Human Services, State Government of Victoria, Australia with Canadian public health immunization specialists

✓ **Currency**	Developed in 2016 and the information is still current.
✓ **Relevance**	The DTP vaccine is given to students in school and the animation presents facts about the vaccine in a way that is easy to understand.
✓ **Authority**	Created by the Department of Health & Human Services, State Government of Victoria, Australia.
✓ **Accuracy**	The information is based on recent research by leading experts within the Victoria State government in Australia, with a web article presenting HPV vaccine information for Canada
✓ **Purpose**	To provide education for school-age children on how the DPT vaccine protects health, for no cost.

7. Meningococcal Vaccine

Lesson: https://kidsboostimmunity.com/07-meningococcal-meningitis-vaccine
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals
Video: Toronto Public Health

✓ **Currency**	Created in 2013 and the information is still current.
✓ **Relevance**	Meningitis can sometimes occur in high school students and this video uses actors to show a situation where a high school student is suffering from meningitis, and they investigate what it is, how to treat it, and the vaccine to prevent meningitis.
✓ **Authority**	Created by Toronto Public Health.
✓ **Accuracy**	The data comes from the most recent research by leading experts.
✓ **Purpose**	To provide education for school-age children on the meningitis vaccine. No cost.

VACCINE lessons are for both SCIENCE BASICS and SCIENCE cont.

8. Chickenpox Vaccine

Lesson: https://kidsboostimmunity.com/09-chickenpox-vaccine
Video: http://immunehero.health.vic.gov.au/resource/chickenpox-video/
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals

✓ **Currency**	Created in 2018 and the information is still current.
✓ **Relevance**	The chickenpox vaccine is usually given when children are younger and the video presents facts about the vaccine in a way that is easy to understand.
✓ **Authority**	Created by the Cancer Council of Victoria, Australia
✓ **Accuracy**	The information is based on recent research by leading experts within the Victoria State government in Australia, with a web article presenting facts for BC. Developed by ImmunizeBC.
✓ **Purpose**	To provide education for school-age children on the chickenpox vaccine for no cost.

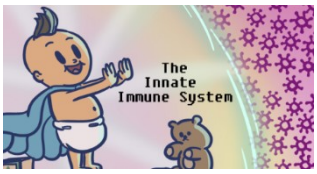
SCIENCE: THE IMMUNE SYSTEM

1. What Is The Immune System?

Lesson: https://kidsboostimmunity.com/01-what-immune-system
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals

✓ **Currency**	Created between 2015-17, information is still current.
✓ **Relevance**	The immune system or the body's defence system is part of the science curriculum and the information presented in the image is designed for school students.
✓ **Authority**	Developed by experts in the medical field and experienced educational video makers.
✓ **Accuracy**	The information is developed by knowledgeable professionals in the immunology and virology medical and research fields.
✓ **Purpose**	To provide accurate and scientifically proven teaching tools on the immune system and vaccines for use in schools. No cost.

2. The INNATE Immune System



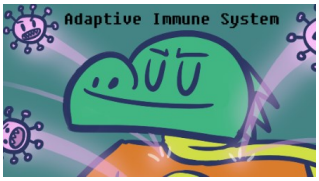
Lesson: https://kidsboostimmunity.com/02-innate-immune-system
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals

Video: https://www.patreon.com/crashcourse
An educational site committed to promoting quality educational videos with lessons written by highly qualified experts

✓ **Currency**	Created between 2015-17, information is still current.
✓ **Relevance**	The immune system is part of the BC Science 8 curriculum and the information presented in the three videos is designed for school students.
✓ **Authority**	Developed by experts in the medical field and experienced educational video makers.
✓ **Accuracy**	The videos are created by knowledgeable professionals in the immunology and virology medical and research fields. https://www.patreon.com/crashcourse
✓ **Purpose**	To provide accurate and scientifically proven teaching tools on the immune system and vaccines for use in schools. No cost.

SCIENCE: THE IMMUNE SYSTEM cont.

3. The ADAPTIVE Immune System

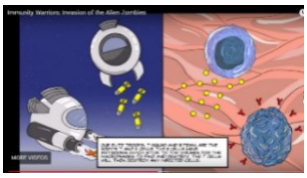


Lesson: https://kidsboostimmunity.com/03-adaptive-immune-system
Creators: Non-profit government organization - BC Centre for Disease Control and public health professionals
Video: https://www.patreon.com/crashcourse
An educational site committed to promoting quality educational videos with lessons written by highly qualified experts

✓ **Currency**	Created between 2015-17, information is still current.
✓ **Relevance**	The immune system is part of the BC Science 8 curriculum and the information presented in the three videos is designed for school students.
✓ **Authority**	Developed by experts in the medical field and experienced educational video makers.
✓ **Accuracy**	The videos are created by knowledgeable professionals in the immunology and virology medical and research fields. https://www.patreon.com/crashcourse
✓ **Purpose**	To provide accurate and scientifically proven teaching tools on the immune system and vaccines for use in schools. No cost.

SCIENCE: VACCINES

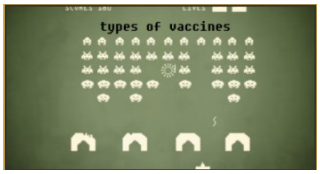
1. How Vaccines Work



Lesson: https://kidsboostimmunity.com/01-how-vaccines-work
Creators: Produced by CanImmunize, a non-profit organization funded by the Public Health Agency of Canada.
Video: https://www.canimmunize.ca/en/immunity-warriors

✓ **Currency**	Created in 2013 and the information is still current.
✓ **Relevance**	This motion comic uses a zombie apocalypse story to explain the process involved in making a vaccine so is easy for students to understand.
✓ **Authority**	The motion comic was co-created by physicians, nurses and other public health specialists working in the field of immunization, along with writers and graphic artists
✓ **Accuracy**	The information is provided by highly knowledgeable and specialized health, research, and medical professionals, talented story-tellers and artists/animators.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

2. Types of Vaccines

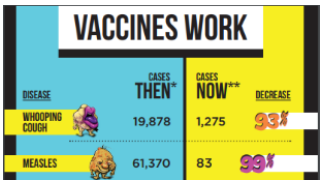


Lesson: https://kidsboostimmunity.com/02-types-vaccines
Creators: Adapted from the following https://ed.ted.com/lessons/how-do-vaccines-work-kelwalin-dhanasarnsombut
Video: https://www.youtube.com/watch?v=rb7TVW77ZCs TED-ED video

✓ **Currency**	Created in 2015 and the information is still current.
✓ **Relevance**	This article and video describes how vaccines are created from live, deactivated, inactivated toxin (subunit/conjugate) in a way that is easy to understand for students.
✓ **Authority**	The TED Education lesson and video are created under the direction of immunization specialists, and illustrated by skilled animators and graphic artists.
✓ **Accuracy**	The information is provided by highly knowledgeable and specialized health, research, and medical professionals, talented story-tellers and artists/animators.
✓ **Purpose**	To educate school-age children on immunization and the importance of vaccinations. No cost.

SCIENCE: VACCINES cont.

3. How Effective Are Vaccines



Lesson: https://kidsboostimmunity.com/03-how-effective-are-vaccines
Creators: Public Health Agency of Canada.
Poster: Public Health Agency of Canada https://www.canada.ca/en/public-health/services/publications/healthy-living/vaccines-work-infographic.html

✓ **Currency**	Created in 2015 and the information is still current.
✓ **Relevance**	Shows how vaccines are helping to prevent diseases by showing number of cases before and after introduction of each of the vaccines.
✓ **Authority**	Created by the Public Agency of Canada.
✓ **Accuracy**	The data comes from the most recent research by leading experts.
✓ **Purpose**	To provide education for school-age children on how vaccines are developed. No cost.

4. What Vaccines Do You Need?

Lesson: https://kidsboostimmunity.com/04-what-vaccines-do-you-need
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals from UNICEF

✓ **Currency**	Updated in 2016 and the information is still current.
✓ **Relevance**	Provides graphs that show the development of vaccines for HiB (meningitis, etc.), hepatitis B, measles, rubella, tetanus
✓ **Authority**	Created by the Public Agency of Canada
✓ **Accuracy**	The data comes from the most recent research by leading experts.
✓ **Purpose**	To provide education for school-age children on how vaccines are developed for no cost.

SCIENCE – ANTIBIOTICS

1. What Are Antibiotics and How Do They Work?

Lesson: https://kidsboostimmunity.com/01-what-are-antibiotics-how-do-they-work
Creators: Non-profit government organization - BC Centre for Disease Control
Video: BC Provincial Health Services Authority

✓ **Currency**	Published In November 2017 and the information is still current.
✓ **Relevance**	Discusses the wise use of antibiotics to treat bacterial infections and explains how these are different to viruses.
✓ **Authority**	Dr. David Patrick from the BC Centre for Disease Control.
✓ **Accuracy**	The data comes from well known recent research by leading experts.
✓ **Purpose**	To provide education for school-age children on how vaccines are developed for no cost.

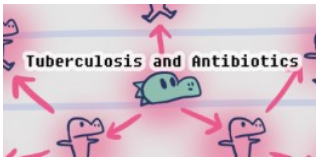
2. Antibiotic Resistance

Lesson: https://kidsboostimmunity.com/02-antibiotic-resistance
Creators: Provincial Health Services Authority
Videos: Public Health Service Announcements

✓ **Currency**	Published In November 2017 and the information is still current.
✓ **Relevance**	Discusses the wise use of antibiotics to treat bacterial infections and explains how these are different to viruses
✓ **Authority**	Dr. David Patrick from the BC Centre for Disease Control.
✓ **Accuracy**	The data comes from well known recent research by leading experts.
✓ **Purpose**	To provide education to the public on the wise use of antibiotics. No cost.

SCIENCE – ANTIBIOTICS cont.

3. Antibiotics and Tuberculosis



Lesson: https://kidsboostimmunity.com/03-tuberculosis-and-antibiotics
Creators: Non-profit government organization - BC Centre for Disease Control
Videos: BC Provincial Health Services Authority

✓ **Currency**	Created in 2018 and the information is still current.
✓ **Relevance**	Discusses the wise use of antibiotics to treat bacterial infections like Tuberculosis
✓ **Authority**	Dr. David Patrick from the BC Centre for Disease Control.
✓ **Accuracy**	The data comes from well known recent research by leading experts.
✓ **Purpose**	To provide education to school age children on the wise use of antibiotics. No cost.

SCIENCE – THE SPREAD OF DISEASE AND OUTBREAKS

1. Outbreaks, epidemics and pandemics

Lesson: https://kidsboostimmunity.com/01-outbreaks-epidemics-and-pandemics
Creators: Non-profit government organization - BC Centre for Disease Control
Video: Marina Spyridis Design & Illustration - medical illustration/biomedical communication https://www.youtube.com/watch?v=DyY5fyxo4es

✓	**Currency**	Published in 2016 and the information is still current.
✓	**Relevance**	Fits with the BC Science 8 curriculum looking at outbreaks and managing spread of disease.
	Authority	Not determined for the source but the information is worthy
	Accuracy	Not confirmed
✓	**Purpose**	To provide education for school-age children on epidemics/pandemics. No cost.

2. New Diseases on Turtle Island

Lesson: https://kidsboostimmunity.com/02-new-diseases-turtle-island
Creators: Story created by curriculum specialist/educator and recollections by curriculum/program developer, and reviewed by an Elder.

✓	**Currency**	Created in 2018 and the information is still current.
✓	**Relevance**	Story describing the impacts of historical diseases on Indigenous peoples in BC, with a focus on smallpox, and the smallpox epidemic of 1862.
✓	**Authority**	Created by Shawna Duncan (artist, curriculum/program developer, Indigenous cultural safety facilitator) with Elder Glida Morgan from Tla'amin Nation.
✓	**Accuracy**	The information is provided by specialists in Indigenous perspectives and reviewed by highly specialized heath and education professionals
✓	**Purpose**	To provide education for school-age children on the impact of epidemics. No cost.

SCIENCE – THE SPREAD OF DISEASE AND OUTBREAKS cont.

3. BC's Fraser Health Measles Outbreak

Lesson: Available spring, 2019
Creators: Non-profit government organization - BC Centre for Disease Control and health professionals from UNICEF

✓ **Currency**	Updated in 2018 and the information is still current.
✓ **Relevance**	Students sort through datasets, interviews with public nurse, media articles, a map and a chart to write a blog article about the Fraser health measles outbreak in 2014
✓ **Authority**	News articles from CTV, data from Fraser health in BC, articles form epidemiologists, and definitions from the World Health Organization
✓ **Accuracy**	The information is provided by the public health nurse in charge of communication and epidemiologists from Fraser Health at the time of the outbreak
✓ **Purpose**	To provide education for school-age children on how outbreaks are managed. No cost.