

UN SDG 6 Infographic Assignment

Introduction

You are a part of a global effort to increase access to education and empower students through "open pedagogy." Open pedagogy is a "free access" educational practice that places you - the student - at the center of your own learning process in a more engaging, collaborative learning environment. The ultimate purpose of this effort is to achieve greater social justice in our community in which the work can be freely shared with the broader community. This is a renewable assignment that is designed to enable you to become an agent of change in your community through the framework of the United Nations Sustainable Development Goals (SDGs). For this work, you will integrate the disciplines of chemistry and political science.

Access to clean drinking water worldwide is a key focus of the United Nations Sustainable Development Goal 6, Clean Water and Sanitation. To gain more relevant knowledge in this area the goal of this assignment is to task you with researching the sources, treatment, consumption and challenges of drinking water for a community they are connected to, and use technology to create an infographic to educate other learners. This assignment is designed to improve your academic skills, increase your knowledge of a community of your choice, and develop awareness of clean water sources, treatment, consumption and challenges.

Learning Outcomes

At the end of this assignment students will be able to:

- Identify and curate information on drinking water source, treatment, regulation, consumption and challenges for a community
- Analyze information and identify a challenge to water quality or quantity
- Summarize and combine information using an effective infographic format with visual elements and writing to arrange and communicate quantitative and qualitative information
- Reference information from academic and non-academic sources using appropriate disciplinary conventions and citation styles
- Choose a creative commons license for work made public

Required Information:

Create an infographic using a digital tool to show information about the drinking water source, treatment, regulation, consumption and a challenge to drinking water quality or quantity for a community of your choice. The community you choose should be a place you are connected to. Your infographic should be one page and include the following:

- Name and location of community
- The source of the drinking water
- The overall type of treatment used to treat the source water to make it safe for drinking

- A visual representation of data to illustrate some aspect of water consumption in your community
- What governing body regulates the drinking water quality
- Visually represent one issue that challenges water quality or water quantity for your community
- have a creative commons license of your choice

Citation

Appropriate sources of information will include municipal websites, journals in the discipline, state or provincial government websites, national organization websites such as the EPA or Health Canada, and trade publications or consultant reports.

Example footnote citation formats to use:

Website

- o Author (year), title, link, date accessed

publication

- o Author (year), title, journal, volume(number), page range

publication on internet

- o Author (year), title, journal, volume(number), page range, link, date accessed

Deadlines

September 29 – Goal to choose community

October 13, 2021 (2 marks) – deadline to submit community, complete reference of consumption data source, reference for two additional sources of information, statement regarding your connection to the community you chose

October 18, 2021 (1 mark) - Infographic draft

November 1, 2021 (1 mark) - Final Infographic

November 1 - 15, 2021 (1 bonus mark, optional) - Post infographic to public map portal

Marking

Infographic mark: (out of 16)

Meeting Deadlines mark: (out of 4)

Total: (out of 20 marks)

Infographic Rubric

Category	Item	4	3	2	1
Infographic Content	Water sources, treatment, regulation and challenge	Clearly conveys information about community, water source and treatment, regulating government body and a challenge. Demonstrates required information has been collected and assessed.	Clearly conveys most information about community, water source and treatment, regulating government body and a challenge. Demonstrates required information has been collected and assessed.	Does not clearly convey information about water source and treatment, regulating government body and a challenge. Demonstrates some information has been collected and partially assessed.	Some required content is completely missing. Demonstrates inadequate information has been collected.
	Data	Includes consumption data and clearly explains what data represents.	Includes consumption data with partial explanation of what data represents.	Consumption data included.	Consumption data not clearly included.

Infographic Components	Images and layout	The infographic is driven by images rather than text. Images enhance the infographic and relate to the topics. Text supports the images and is not repetitive. The infographic layout is organized, logical and easy to follow and helps convey information clearly.	The infographic is driven by images rather than text. Images enhance the infographic and relate to the topics. Text supports the images. The infographic layout is mostly organized logical and easy to follow.	The infographic is driven by images rather than text. The infographic layout is mostly organized.	The infographic is driven by text and is not organized.
	Sources and creative commons license	Appropriate sources used to gather information. Citations using provided format for all sources used are included as footnotes in the infographic. Creative commons license is clear.	Appropriate sources used to gather information. Citations using provided format for most sources used are included as footnotes in the infographic. Creative commons license is clear.	Mostly appropriate sources used to gather information. Partial citations for some sources used are included but may not use provided format. Creative commons license is clear.	Inappropriate sources used, citations for sources are not included or creative commons license is missing.

What is an infographic?

The term infographic is short for information graphic, and they use visuals supported by text to illustrate information or data. The types of visuals used may be charts, graphs, diagrams, images, maps, icons and more. Infographics are different from posters as infographics do not contain a lot of text. Instead, visuals are used to replace text.

See 'A Student's Guide to Infographics': <http://www.teachology.ca/wp-content/uploads/2017/10/A-Students-Guide-to-Infographics.pdf> (Note - see footnote citations in example infographic)

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