



French STEM Resources

English Version

Presented by the WISEST Youth Council



French STEM Resources

Background of Project

The French STEM Resource project was created as a repository for French high school students to assist them in finding STEM resources. This collection centres on the issue that French STEM resources at the high school level can be challenging to find. The list was originally much longer than the finalized one; however, it was analyzed until only quality resources remained. Resources that are part of the repository are sourced from an array of platforms, ensuring a variety of choice. Multiple types of media are included, such as academic articles, YouTube channels, and podcasts, catering to different needs and learning styles. The French STEM resource project was compiled to facilitate the search for quality French STEM resources.

Goals of Project

Our ultimate goal for this project is to provide students in Francophone or French Immersion programming valuable and reputable resources in Science, Technology, Engineering, and Mathematics (STEM), offered in the French language. We hope to eliminate the extra step in which students find a STEM resource in English, but must translate the information into French.

How to Use Our Resource Collection

Our resources are divided into six categories: Trailblazing Women in STEM Postcards, YouTube Channels, Websites, Academic Papers, Podcasts, and Science Communicators. Visit the category of your interest, where you will find a list of resources with a short description of each. Simply click the link to access the resource!

Disclaimer

These resources are by no means exhaustive. Please note that some resources may not completely align with the Mathematics and Science curriculums in Alberta and are meant to serve as supplementary resources to classroom learning. For more information about WISEST, visit our website at <https://www.ualberta.ca/women-in-scholarship-engineering-science-technology>.



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Category 1: Trailblazing Women in STEM Postcards

WISEST has developed a series of postcards featuring influential women in STEM, to acknowledge their incredible contributions that have long gone unrecognized. These postcards are available for download in both English and French.

Resource: Trailblazing Women in Vaccine Development Postcards

Link:

<https://www.ualberta.ca/women-in-scholarship-engineering-science-technology/resources/trailblazing-women-in-stem/women-in-vaccine-development/index.html>

Description: These postcards highlight five trailblazing women in vaccine development.

Resource: Trailblazing Women in Climate Science Postcards

Link:

<https://www.ualberta.ca/women-in-scholarship-engineering-science-technology/resources/trailblazing-women-in-stem/women-in-climate-science/index.html>

Description: These postcards highlight five trailblazing women in climate science.

Resource: Trailblazing Women in Mathematics Postcards

Link:

<https://www.ualberta.ca/women-in-scholarship-engineering-science-technology/resources/trailblazing-women-in-stem/trailblazing-women-in-mathematics/index.html>

Description: These postcards highlight five trailblazing women in mathematics.



Category 2: YouTube Channels

All of the following YouTube channels belong to teachers that create educational videos that align with the Alberta Curriculum. There are a variety of subjects that each teacher covers; however, not all units within every subject are covered.

Resource: Ronald Dery YouTube Channel

Link: <https://www.youtube.com/@ronalddery5321/videos?app=desktop>

Description: Videos teaching Biologie 20, 30 and Math 30-2.

Resource: Daniel Dion YouTube Channel

Link: <https://www.youtube.com/@danieldion1/videos?app=desktop>

Description: Videos teaching Chimie 30 and Physique 30.

Resource: Melissa Baxter YouTube Channel

Link: <https://www.youtube.com/@MelissaBaxterHTA>

Description: Videos teaching Science 10, Biologie 20, 30, and Chimie 30.

Resource: Jenn Gordon YouTube Channel

Link: <https://www.youtube.com/@MmeGordonWCHS/playlists>

Description: Videos teaching Math 10C, 20-1, 20-2, 30-1, and 30-2.



Category 3: Websites

These websites are entirely in French, containing a variety of their own resources and links to follow.

Resource: French Khan Academy

Link: <https://fr.khanacademy.org/>

Description: Khan Academy website, translated by people in France, covering subjects such as Math, Chimie, Biologie, and Physique.

Resource: Science Journal for Kids and Teens

Link: <https://www.sciencejournalforkids.org>

Description: Articles covering different topics in STEM that are tailored to be more understandable by younger audiences. The website can be translated into both English and French.



Category 4: Academic Papers

Pertinent academic papers can be difficult to find, especially in French. This section includes search tools to help find open-access academic papers easily.

Resource: Érudit

Link: <https://www.erudit.org/fr/>

Resource Type: Database of articles and other resources.

Description: Érudit is an open-access bank of academic papers based in Québec.

Resource: JSTOR

Link: <https://www.jstor.org/action/showAdvancedSearch>

Resource Type: Database of articles and other resources.

Description: JSTOR is a large database of academic papers. Use search tools to find French content.

Resource: BASE: Bielefeld Academic Search Engine

Link: <https://www.base-search.net/?l=fr>

Resource Type: Search tool for articles and other resources. Outil de recherche pour papiers académiques et d'autres ressources

Description: BASE is a search tool with specialized search filters to help find exactly what you are looking for within their database that is 60% open access. The website can be set to display in French.

Resource: DOAJ: Directory of Open Access Journals

Link: <https://doaj.org/>

Resource Type: Database of articles and other resources.

Description: DOAJ is a user-friendly database of open access academic papers. While there are no search filters, one can find content in French by searching using French terms.



Category 5: Podcasts

This section is a compilation of French podcasts focusing on STEM. There are podcasts for both educational and entertainment purposes.

Resource: La Science, CQFD

Link: <https://chartable.com/podcasts/la-methode-scientifique/episodes>

Description: A podcast that covers a variety of areas within STEM, including subjects relating to Physics 20 and 30.

Resource: Radio France

Link: <https://www.radiofrance.fr/sciences-savoirs/sciences>

Description: A website with many different podcasts on it, covers a diverse range of STEM interests.

Resource: Podcast Science

Link: <https://www.podcastscience.fm/category/emission/>

Description: This podcast covers a variety of STEM topics, with both educational and entertaining episodes.



Category 6: Science Communicators

This section features influential people from the STEM community, with an online presence. These science communicators share personal experiences, factual information, and help us become better scientists in the everyday world.

Resource: Astro BBoy

Link: @astrobbboy_ (Instagram) and @astrobbboy3 (TikTok)

Resource Type: Instagram and Tiktok

Description: A non-personal account that shares information on a variety of scientific topics that are entertaining.

Resource: Elodie Chabrol

Link: @eloscicomm

Resource Type: Instagram

Description: Elodie is a French neuroscientist and founder of Pint of Science and Pint of Science France, a pair of English/French science communication festivals.

Resource: Camille Etienne

Link: @graine_de_possible

Resource Type: Instagram

Description: Camille is an activist for social justice and climate change.

Resource: Thomas Pesquet

Link: @thom_astro (Instagram) and <https://blogs.esa.int/thomas-pesquet/> (blog)

Resource Type: Instagram and Blog

Description: Thomas is a French astronaut who posts the daily life of an astronaut, both on Earth and in space.

Resource: Germain O'livry

Link: @docnozman

Resource Type: Instagram

Description: Germain is a YouTuber who adapts his videos into Instagram content that debunks myths, shares fun facts, and provides a scientific perspective on current events.



Thank You!

Presented by 2022-2023 WISEST Youth Council Members Peyton D., Sarah F., Keegan K., and Clara V.

Thank you for using our French STEM Resources; we hope you found them helpful.

If you have any feedback, we would love to hear from you! Please send us an email at wisest.outreach@ualberta.ca

