

## SNC2D Summative Project: Is It Fake News?

With the use of cell phones, accessing information about science is incredibly easy. But how do you know that the information is accurate, based on scientific research and that it is reliable? Analysing sources based on their reliability is an important skill. For this project, you will be asked to find resources about the concepts we've learned in class and critique their validity. We will go to the library to look at different sources and how you can assess if they are reliable and credible rather than just fake news.

### Your task:

- Find **4 different** sources that teach you a new fact about each unit (**Biology, Chemistry, Optics, Climate Change**). The sources can include: Instagram, Twitter, a podcast, a YouTube channel, Facebook, TikTok, a website.
- One of the sources selected will need to be unreliable and the critique should show what makes it untrustworthy. (The best unit for this will likely be Climate Change)
- Critically assess the validity of the sources to ensure that they are based on scientific evidence.
- Present the facts from each source and critique to the class, showing how the fact is or is not reliable.
- All sources should be cited in the final product using an **APA Reference** list.

### Presentations:

- You can choose to be in a group of 1-4 people. If you are in a group of 4 people, you will each choose one unit to present about. If you are in a group of less than 4 people, you will need to divide the 4 units equally.
- The presentation will be **up to 10 minutes** long with approximately 2.5 minutes per unit.
- You can choose how to present but there should be a clear visual with the fact(s) you have learned and the critique/proof that the source is credible. \*You can choose to present in front of the class or through playing a recorded presentation to the class\*

### Before the Presentation:

- As a draft, you will record your research about different sources in the template below. Include the research used to check that your source is a valid, credible source with citations. This will help you stay on track to create your final product.

### Research Draft:

- Fill in this chart, highlighting the fact and the source's URL. Also, provide the ways that the source is or is not reliable, using the structure from the lesson in the Library.

Unit	Source and Fact Description	Critical Analysis of the Source
<b>Chemistry</b>	Source hyperlink:	
<b>Biology</b>	Source hyperlink:	
<b>Optics</b>	Source hyperlink:	
<b>Climate Change</b>	Source hyperlink:  Can YOU Fix Climate Change?	

Rubric

Criteria	Level 1	Level 2	Level 3	Level 4
Research (Thinking)  / 12 marks	Research draft lacks detail	Research draft is somewhat detailed	Research draft is mostly clear & detailed	Research draft is clear and detailed
	Major problems with sources	Most sources are cited with some errors	All sources are cited with few errors	Sources are cited in APA format correctly
	Selected sources show limited understanding into unit themes and/or are off topic	Selected sources show some understanding into unit themes	Selected sources show understanding of unit themes	Selected sources show insight into unit themes
Critical Analysis (Application)  /12 marks	The critical analysis is limited	The critical analysis has some research to support it	The critical analysis is mostly well researched	The critical analysis is well researched
	There are limited valid sources to support the critical analysis	The critical analysis includes a valid citation for some units to support the credibility of the source	The critical analysis includes a valid citation for most units to support the credibility of the source	The critical analysis includes at least one valid citation per unit to support the credibility of the source
	The critical analysis is limited	The critical analysis has some detail	The critical analysis is mostly detailed	The critical analysis very detailed and clear
Scientific Facts (Knowledge)  /12 marks	The presentation of the fact shows a limited understanding of the sources	The presentation of the fact shows some understanding of the sources	The presentation of the fact shows a mostly clear understanding of the sources	The presentation of the fact shows a thorough understanding of the sources
	The interesting fact is discussed in a very limited way	The interesting fact is discussed but it is unclear	The interesting fact is discussed but it is not detailed	The interesting fact for each unit is clear and detailed
	Facts are not associated with the units or the link is limited	Some interesting facts are linked well to the unit	Most interesting facts are linked well to the unit	Each interesting fact is linked well to the unit
Presentation Format (Communication)  /12 marks	Presentation is not engaging	Presentation is somewhat engaging	Presentation is mostly engaging	Presentation is engaging.
	Technology does not enhance presentation. Presentation is not creative	Technology is used somewhat well. Presentation is somewhat creative	Technology mostly enhances presentation. Presentation is mostly creative	Project uses technology well. Presentation method is creative
	Presentation does not use the time well and is too short or too long	Presentation somewhat uses the time well	Presentation mostly uses the time well	Presentation is within the 10 minute allotted time and uses the time well