

## Moscrop Science 10

Name: \_\_\_\_\_ AM / PM

### PRESENTATION Rubric for Final Written Assignment and Presentation.

Information to Convey (2-3 slides per person):

- Synthesizer – Introduce topic; include powerful imagery or a video clip (30 seconds) that sums up the most important aspect of the topic, and to get the attention of the audience. Sum up the topic at the end
- Problemetizer – Introduce your case study; show a picture or visual that demonstrates the scale or severity of the problem.  
Present and explain ONE figure / graph that supports your arguments!
- Resolver – Introduce the potential solution(s) to the problems brought up by previous members.  
DEMONSTRATE a solution or technology as part of your presentation

Each group member can come up with a question; choose 1-2 questions for discussion on your presentation date

### PRESENTATION -- Each person spends ~2 minutes on their topic (2-3 slides),

Prepare Discussion Question(s)

Audience will respond to one question as a journal entry

### Marking Rubric (20 points; group mark!):

Information is presented CLEARLY, and in plain language (limit technical speak; make your audience understand and keep them interested)

Stick to presentation timeline

Slides are more VISUAL, not TEXT-heavy.

Lead discussion question; introduce topic and have meaningful content for audience to respond to.

### Bibliography and References (2 points)

Proper citation / location of image files, data in presentation

Avoiding bias, fallacies

**Marking Rubric for Final Written Assignment and Presentation.****Progress Report: 12 points (Due Thursday, July 26<sup>th</sup>, 2018)**

- 1) Write a 2-3 paragraph DRAFT of your introduction paragraphs. Include an overview of your project and case-study, as outlined in the specific requirements below.  
This will count as a BONUS journal entry, and substitute for the short / long-answer questions for the quiz this week! (8 points)

Include TWO of your citations that you plan to use for your final draft. Complete a SECOND "Article Analysis" worksheet for one of these or for a new reference / book from the research periods this week. I will critique your writing and give you pointers for improving your final paper!

- 2) Write a 1-paragraph (or brief point-form) assessment of your group's research efforts so far. Sample questions to ponder: How have you contributed to the group effort? Does everyone have a role? Does everyone have an interesting case study to examine? Could certain group members be doing more to contribute to the overall effort? (4 points)

**Due Date: Wednesday August 1<sup>st</sup>, 2018 (40 points total!)**

Table of Contents (1 BONUS MARK)

Vocabulary List (3 points; list 8 terms and definitions for full marks)

- What are the terms and definitions you encountered during your research? What search terms were most effective for finding information?

**Written Requirements 2-3 pages double-spaced; NOT including table of contents or terms**

Topic Overview / Introduction (first 1-2 paragraphs; 8 points total)

- Summarize the topic and explain why it is important / relevant to us (First 1-2 paragraphs; 4 points)
- Introduce your case study and explain why it is important / relevant to the topic. (1-2 paragraphs; 4 points)

Premises (4 to 5 paragraphs): Summarize the evidence and the major impacts of your case study, as outlined above. Go into more detail here; each paragraph could cover the items suggested below (15 points)

- What are the CAUSES or MOTIVATIONS behind your case study? Any financial or economic reasons?
- What are the short-term impacts? Explore the human, environmental, and economic impacts.
- What are the long-term impacts? What needs to CHANGE for this issue to be resolved?

Conclusion (1 paragraph; 4 points)

- Re-summarizes the arguments of your group. Bring up any FURTHER questions that should be researched, and potential solutions that you (or the resolver) researched, or your own original ideas for a solution.

**Other marking requirements:**

**Logical flow and strength of arguments. (6 points)**

- Each paragraph of your paper should follow the following structure:
  - Introduction / topic sentence (what's the basic thing this paragraph is about, or why is it important?)
  - Premise + evidence to support the first sentence
  - Statement that links to the next paragraph

**Final assignment checklist -- References, information management and bibliography (4 points)**

- Utilize articles and sources discussed in class and during library period.
- Bibliography: List and properly cite at least 3 references.
- Completed 2 Issue-based or Fact-based Article Analysis for two of your citations (assigned in class)

**Writing Template: Progress Report / Introduction to Urbanization, and the eutrophication of Kanaka Creek!**

Writing Sample: The following paragraph is an example of how to write and structure your final paper. The first few paragraphs are a good way to introduce the bigger topic (urbanization), a specific sub-topic (eutrophication / Urban Stream Syndrome), and a specific case-study (Kanaka Creek in Maple Ridge). There is a connection to other human activities such as agriculture, lawn fertilizers, sewage systems, and how they contribute to algae-blooms, which can be discussed as one of the major consequences of this case study example.

**Terms**: urbanization, eutrophication, Urban Stream Syndrome, biodiversity.

**Introduction**

Urbanization -- the rapid expansion of densely populated areas around the world -- is causing substantial harm to the biodiversity of life on the planet by destroying crucial habitat for a wide range of organisms and adding pollution to nearby ecosystems. In the early 1900s 10% of the Earth's total population resided in urban centers and by 2005 the Earth's total population residing in urban centers ranged from 50 – 85% (Meyer *et al.*, 2005), and these numbers will only increase over time. One major consequence of urbanization is eutrophication, or the excess addition of nutrients – particularly phosphorus and nitrogen -- from lawn fertilizers, detergents, and other household chemicals into the water bodies near these urban centres.

Streams near urban centres are affected by Urban Stream Syndrome, which causes an overall decline in biodiversity and potential for disruption of the native food web. Urbanization can have a greater effect than agricultural runoff on elevating phosphorus concentration in streams. The main sources of phosphorus include fertilizers and wastewater from septic and sewer systems (Paul and Meyer, 2001). Kanaka Creek in Maple Ridge, BC has thirty-four percent of its length encompassed by urbanization, and this amount is increasing each year. Current levels of nitrogen and phosphorus in Kanaka Creek are well above recommend levels fit for human consumption or activity. The continued growth and population expansion of Maple Ridge in the areas around Kanaka Creek will have a wide range of impacts on local streams, wildlife, and the ecosystem that will be explored in this research paper.