

Into the Shark Tank: Criterion A: Inquiring & Analyzing - Task 1

Selection, Explanation and Justification of Need Graphic Organizer

Student's name: Oberdorf, Ryan
Class section: A2

The problem I have selected to move forward with for this design cycle project is:

Wasted Water *Awesome topic!*

Write a paragraph that justifies your choice. In this paragraph, you should thoroughly explain and justify the need for a solution to a problem. Use the guiding questions on your Task 1 sheet to help you.

The problem I have chosen is "wasted water". Wasted water pertains to water that is not being put to good use, like the water leaking from a pipe. While searching for an issue that I care about, I was also thinking of swimming in the summer and about how much water is being use for fun. If

we were in a country in Africa or somewhere like that, we would realize that a pool is a waste of water. *Such a reflective + global thought! How true!* People in places like Africa go long distances for drinking water, and people in America just have water to play in. The reason I see this as

an issue is because less than 1% of water on Earth is available for human use and some people barely have water while others waste it. *There certainly is an inequality here w/ resources!* The price of water has also been increasing

over the years and I will soon be paying bills. The price will be really high for future generations and that will affect everything, like theme park prices and possibly taxes (so public buildings have water access or so firefighters can put out fires). The issue of wasted water needs

to be solved due to the availability of usable water on Earth. The water that

- When finished, staple & submit all of your materials to be assessed by your teacher.

I love that you seem personally connected to this global issue + passionate about

improving the current situation!

Such a good point!

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is being wasted could be put to better use. The water could be used for people without it or for those who don't have access to purification. If this problem is not solved, future generations will be impacted by the rise of price. People also have to face the fact that Earth does not have an abundant source of potable water. Water can become scarce (ex. draught) and even "endangered". When I say endangered, I mean that very little water will be drinkable. Water does not always return to the same place with the same purity in the water cycle. There is a really chance of all of it becoming salt water. The death of the entire human race seems like a very valid reason for why this problem needs to be solved.

Your analysis of the problem really shows the "future wheels" skills in use! Great transforming of knowledge + application of skills.

Into the Chart Tank: Criterion 4: Inquiring & Analyzing - Task 1 - Research Graphic Organizer

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Into the Shark Tank: Criterion A: Inquiring & Analyzing - Task 1 - Research Graphic Organizer

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such a good point!

Short summary of PROBLEM # 1: Gender Equality
 Men and Women are not treated equally in society. Achieved when men and women have the same rights and are valued equally.

Not only about women being oppressed. Society think that what people are capable of doing is biologically determined, which it's not.

List of causes of PROBLEM # 1:
 Gender role set in the past - men work/women stay home, men go to war, men do the hard work, men hold positions in govt. men own land, men can vote... women take care of children
 Physical appearance - Women do not usually appear muscular which leads to society thinking they shouldn't do hard work.

List of systems affected by PROBLEM # 1:
 Education - women = 2/3 of illiterate pop. family system
 Economic - women = 9/10 poor
 government ~~system~~ family financial system

Explanation of how the systems are affected by PROBLEM # 1:
 Education - less women are getting education
~~Education~~ family system - they stay home and care for children → work place - They don't get jobs → or may be rejected
 Financial - Don't make money → rely on men → men run govt.

Cited sources used for research and justification of reliability:

Web Address or Book/Magazine/Documentary Title	Name of Author/Producer	Date of Publication	Justification of Reliability
www.unfpa.org/gender-equality	United Nations Fund for Population Activities	Last Updated March 2015	UNFPA - United Nations Fund for Population Activities (1969).org
www.understandingprejudice.org	Scott Plous - Professor at Wesleyan University	© 2002-2015	Social Psychological Network / Professor organization .org / work cited / many links
data.topics.worldbank.org/gender/country/United-States	World Bank Group (President - Jim Yong Kim)	© 2015	World Bank Group / org / up to date

Short summary of PROBLEM # 2: Access to clean water
 Americans take water for granted - we have faucets and its just
 5 minute faucet = 60 watt bulb on for 14 hours
 780 million can't get safe water in world 1/4
 less than 1% of water is available for human use. Most in polar ice caps
 > 280,000 people die of water related disease

List of causes of PROBLEM # 2:
 Geographical location
 Only dirty water
 Only stagnant
 Only stagnant that is unsafe to consume.
 weather
 Inability to "purchase" water (like company shuts it off)
 Inability to purify the water
 Even though water is in a cycle, it does not always return to the same place in the same quantity and quality.
 Most of Earth's water is salt water
 1% is available for humans to drink

List of systems affected by PROBLEM # 2:
 Water cycle
 Home system
 education system
 government
 hobbies
 productivity
 population
 This is comprehensive a 1st!

Explanation of how the systems are affected by PROBLEM # 2:
 Water cycle - water is not always returned to same place in same quantity and quality
 Home system - people have to go retrieve water
 Edu - kids are going to get water, they're not in school
 water related hobbies or activities cannot be done in certain situations (ex - swimming with drought)
 pop. goes down if people die
 Citizens not having water will break down govt, they are responsible for getting fresh water/access
 Productivity - humans don't function without water / they can die

Cited sources used for research and justification of reliability:

Web Address or Book/Magazine/Documentary Title	Name of Author/Producer	Date of Publication	Justification of Reliability
www.epa.gov/watersense/our_water	EPA	last updated 1/23/15	EPA .gov
water.org	(Co-Founder Matt Damon)	1990-2015 ©	Global HQ and offices all around the world .org works cited
environment.nationalgeographic.com	National Geographic	1996-2015 ©	National Geographic / has goals / links work/etc.

Solid thinking

good start! identify even more subsystems that are affected
 I bet you could!

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Short summary of PROBLEM # 3: ~~Wasting~~ Wasted Water
 running the faucet for 5 minutes = 60 water bulb on for 14 hrs.
 shower toilet faucet clothes leaks other less than 1% of water's available for human use
 16.8% 26.7% 15.7% 21.7% 13.7% 5.3%
 Even though water is in a space, it does not always return to the same place in the same quantity and quality

List of causes of PROBLEM # 3:
 running faucet/toilets long showers
 leaks using machine when they are not full (ex-washer, dishwasher)
 urbanization makes people think there is a lot of water
 overuse of water for agriculture care (watering lawn)
 hobbies - swimming/pools use a lot of water
 increasing population

List of systems affected by PROBLEM # 3:
 habitual system hobbies worms water companies
 plumbing vegetation population taxes

Explanation of how the systems are affected by PROBLEM # 3:
 vegetation - plants can die from too much water/worms drown and die
 can't do things like swim if water becomes scarce
 leaky plumbing will waste the water
 there is less water for the world's pop./it will be competed for because pop. is increasing
 water companies are having to purify so much water that could be used for something not so wasteful
 taxes may increase so water can be used for public buildings or for firefighting

Cited sources used for research and justification of reliability:

Web Address or Book/Magazine/Documentary Title	Name of Author/Producer	Date of Publication	Justification of Reliability
www.epa.gov/watersense/our_water/	EPA	last updated 1/22/15	EPA.gov
www.worldwatercouncil.org	(President-Benedito Branga Branga) World Water Council	2015	his president mission statement
www.mojavewater.org	Mojave Water Agency	2015	works cited + links. The Mojave Water Agency is in charge of water supply in the Mojave area (High Desert's water supply)

http://hdawac.org
 Alliance for Water Awareness and Conservation



Partner of Mojave Water Agency along with other water providers

Nice work finding/evaluating a variety of reliable + valuable resources

very good
 interesting
 important

Short summary of PROBLEM # 4: Not enough people are competing school.
12,349 people not enrolled in school last year

List of causes of PROBLEM # 4:

List of systems affected by PROBLEM # 4:

Explanation of how the systems are affected by PROBLEM # 4:

Cited sources used for research and justification of reliability:

Web Address or Book/Magazine/ Documentary Title	Name of Author/Producer	Date of Publication	Justification of Reliability
<u>www.census.gov</u>	<u>United States Census Bureau</u>	<u>October 2012</u>	<u>It is the United States Census Bureau.</u>



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"How-To Evaluate Your Sources"

Evaluating sources is an important skill. It's been called an art as well as work—much of which is detective work. You have to decide where to look, what clues to search for, and what to accept. You may be overwhelmed with too much information or too little. The temptation is to accept whatever you find. But don't be tempted. Learning how to evaluate effectively is a skill you need both for your course papers and for your life." -Dana Lynn Driscoll & Allen Brize

For more detailed information: Go to: <https://owl.english.purdue.edu/owl/owlprint/553/>

.gov .edu .org

Authority	<ul style="list-style-type: none"> ✓ Is it clear who is responsible for the contents of the page/book/documentary? OX ✓ Is there a way of verifying the legitimacy of the organization, group, company or individual? Is there a way to find out whoever wrote it is truly legit? XOX ✓ Is there any indication of the author's qualifications for writing on a particular topic? Is there that the author knows what they're talking about? O ✓ Is the information from sources known to be reliable? XOX
Accuracy	<ul style="list-style-type: none"> ✓ Are the sources for factual information clearly listed so they can be verified in another source? A ✓ Is the information free of grammatical, spelling, and other typographical errors?
Objectivity	<ul style="list-style-type: none"> ✓ Does the content appear to contain any evidence of bias? Does it seem like the author is considering many points of view and not trying to persuade you? O ✓ Does it seem like the author is only trying to inform you free of any opinion? ✓ Is there a link to a page describing the goals or purpose of the sponsoring organization or company? OX ✓ If there is any advertising on the page, is it clearly separated from the informational content? A
Currency	<ul style="list-style-type: none"> ✓ Are there dates on the page to indicate when the page was written, when the page was first placed on the Web, or when the page was last revised? XOX ✓ Is the information current/relevant still? OX
Coverage	<ul style="list-style-type: none"> ✓ Are these topics successfully addressed, with clearly presented arguments and adequate support to substantiate them? ✓ Does the work update other sources, substantiate other materials you have read, or add new information? ✓ Is the target audience identified and appropriate for your needs?
Appearance	<ul style="list-style-type: none"> ✓ Does the site look well organized? X ✓ Do the links work? X ✓ Does the site appear well maintained? X

Evaluation continues during reading...

After you have asked yourself some questions about the source and determined that it's worth your time to find and read that source, you can evaluate the material in the source as you read through it.

- Read the preface --What does the author want to accomplish? Browse through the table of contents and the index. This will give you an overview of the source. Is your topic covered in enough depth to be helpful? If you don't find your topic discussed, try searching for some synonyms in the index.
- Check for a list of references or other citations that look as if they will lead you to related material that would be good sources.
- Determine the intended audience. Are you the intended audience? Consider the tone, style, level of information, and assumptions the author makes about the reader. Are they appropriate for your needs?
- Try to determine if the content of the source is fact, opinion, or propaganda. If you think the source is offering facts, are the sources for those facts clearly indicated?
- Do you think there's enough evidence offered? Is the coverage comprehensive? (As you learn more and more about your topic, you will notice that this gets easier as you become more of an expert.)
- Is the language objective or emotional?
- Are there broad generalizations that overstate or oversimplify the matter?
- Does the author use a good mix of primary and secondary sources for information?
- If the source is opinion, does the author offer sound reasons for adopting that stance? (Consider again those questions about the author. Is this person reputable?)
- Check for accuracy.
- How timely is the source? Is the source twenty years out of date? Some information becomes dated when new research is available, but other older sources of information can be quite sound fifty or a hundred years later.
- Do some cross-checking. Can you find some of the same information given elsewhere?
- How credible is the author? If the document is anonymous, what do you know about the organization?
- Are there vague or sweeping generalizations that aren't backed up with evidence?
- Are arguments very one-sided with no acknowledgement of other viewpoints?

The above questions have been taken from Purdue OWL website located at:
<https://owl.english.purdue.edu/owl/owlprint/553/>

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Oberdorf Ryan

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too much water/energy being used

CF carriers/
Abnormality carriers/
carry disease/
stop spread of disease

Mission:

Use your smarts to figure out a better way to create something that has a positive impact on our world. The "better way" must have a positive effect, on balance, on the systems of which you're a member so that you can be creative with a conscience.

prejudice

getting to school late

suicide rate

Tasks:

Online dating.

rely on technology / how people treat each other / generalization and discrimination / Animal habitats

1. **Identify** a variety of real world problems (at least three) that you would personally like to change.

2. **Record your research** for each potential problem in the graphic organizer provided:

- to understand each problem,
- to determine the cause(s) of each problem,
- to learn about who/what is negatively affected by the problem (*Think systems & subsystems!),
- to explain how those systems are negatively affected by the problem and the domino effect that is happening or could happen if the problem is not changed.

3. **Evaluate your sources and cite each source you use** in the graphic organizer provided to include:

- the website address, book title, magazine title, documentary title, etc.
- the name of the author/producer,
- the date of publication,
- sentence(s) to justify why you feel this source is reliable, referencing the list we provided you on the sheet called "How-To Evaluate Your Sources"

4. **Select** one problem to move forward with for this design cycle project. Write a paragraph that justifies your choice. Here are some guiding questions to consider when writing your paragraph:

- What is the problem you've chosen?
- Why have you chosen this problem? Why are you passionate about it? Why do you care?
- How does this problem affect you and your world?
- Why do you feel the need to solve this problem? What is happening right now that is unacceptable?
- In what ways would not solving this problem lead to more unfortunate things taking place?

Understandingprejudice.org

Rubric for Assessment: Criterion A: Inquiring & Analyzing

Before turning in your assignment, please staple the following materials together in this order:

- (on top) 1st: Selection, Explanation and Justification of Need Graphic Organizer,
- 2nd: All of your Research Graphic Organizers (minimum of three are required)
- 3rd: "How to Evaluate Your Sources" sheet
- (on bottom) 4th: This sheet (i.e. the task and rubric)

MYP Design: Criterion A: Inquiring and analyzing

You should be able to:

- explain and justify the need for a solution to a problem
- state and prioritize the main points of research needed to develop a solution to the problem
- present the main findings of relevant research.

0	MI – Minimal 1-2	BA – Basic 3-4	PR – Proficient 5-6	AD - Advanced 7-8
The student does not reach a standard described by any of the descriptors.	<p>The student:</p> <p><u>states</u> the need for a solution to a problem</p> <p><u>states</u> the findings of research.</p>	<p>The student:</p> <p><u>outlines</u> the need for a solution to a problem</p> <p><u>states</u> some points of research needed <u>[understand a problem]</u> to develop a solution, with some guidance</p> <p><u>outlines</u> some of the main findings of research.</p>	<p>The student:</p> <p><u>explains</u> the need for a solution to a problem</p> <p><u>states</u> and <u>prioritizes</u> the main points of research needed <u>[understand a problem]</u> to develop a solution to the problem, with some guidance</p> <p><u>outlines</u> the main findings of relevant research.</p>	<p>The student:</p> <p><u>explains</u> and <u>justifies</u> the need for a solution to a problem</p> <p><u>states</u> and <u>prioritizes</u> the main points of research needed to <u>[understand a problem]</u> and to develop a solution to the problem, with minimal guidance</p> <p><u>presents</u> the main findings of relevant research.</p>

*Very thorough!
Awesome job articulating the connections*

hypothesizing future issues if this problem/situation is not improved!