**Station 2 What’s Missing?**

Go to <http://millbrookmediacenter.weebly.com/chemistry-research-orientation.html> (or from the Media Center Website, click on Links and then Chemistry Research Orientation)

1. **Scroll** down to the “What’s Missing” section and read the directions – in your notes answer: *Why do you think Matt chose DHMO as a topic for his SRP?*
2. Look at the section of Matt’s SRP essay. Because this is a RESEARCH paper and he had to get information from different sources, **what is missing from his paragraphs?** Write down the answer in your notes and to check your work, open the “What’s Missing?” envelope at this station.
3. **EVALUATE** the main DHMO website Matt used for research. The link is on the chemistry section of the media center chemistry page. Click on the picture of the DHMO website to open it.
4. As a group discuss the quality of this website and in your own notes **list 5 parts** of the website that show it is either high quality or low quality.
5. When you are done get the “**Website Evaluation” envelope** to see if we agree with your evaluation!

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***Excerpt from Matt’s essay on the problems with DHMO:***

 DHMO is an important chemical but is also devastating to many people’s lives. It turns out that research has shown DHMO probably causes many different types of cancer including Hodgkin’s Lymphoma and Leukemia. My family has been dramatically affected by Leukemia. My brother had Leukemia and although he is now in remission our family went through a lot of stress in dealing with his disease. Anything that can be done to prevent Leukemia is important.

 If we can detect DHMO then maybe we can keep people from using it.Dihydrogen Monoxide is found in detectable and biologically significant levels in virtually all tumors and other cancerous and pre-cancerous growths.  Cancer research has made significant advances in the detection and treatment of many forms of cancers. With each new advancement, the role DHMO plays in the cause of cancer is likely to be better understood.

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**Works Cited**

“Dihydrogen Monoxide.” *Uncyclopedia*. N.p., n.d. Web. 03 Sept. 2012. <http://uncyclopedia.wikia.com/wiki/Dihydrogen\_monoxide>.

“The Invisible Killer.” *Ban Dihydrogen Monoxide*. U of Delaware, n.d. Web. 03 Sept. 2012. <http://www.netreach.net/~rjones/no\_dhmo.html>.

Lechner, Eric. “Warning! Dangerous Contamination!” *Rec.humor.funny*. Google, n.d. Web. 03 Sept. 2012. <https://groups.google.com/forum/?fromgroups#!topic/rec.humor.funny/P5haBpoqGdg>.

Ninjapig123. “What is Dihydrogen Monoxide?” *Answers*. Answers Corporation, n.d. Web. 03 Sept. 2012. <http://wiki.answers.com/Q/What\_is\_dihydrogen\_monoxide>.

Way, Tom. “Dihydrogen Monoxide and Cancer.” *Dihydrogen Monoxide Research Division*. N.p., 3 Sept. 2012. Web. 03 Sept. 2012. <http://dhmo.org/cancer.html>.

“Your All Natural Friend.” *DHMO*. Scorched Earth Party, n.d. Web. 03 Sept. 2012. <http://www.armory.com/~crisper/DHMO/>.

***Excerpt from Matt’s essay on the problems with DHMO:***

 DHMO is an important chemical but is also devastating to many people’s lives. According to Tom Way of the Dihydrogen Monoxide Research Division, it turns out that research has shown DHMO probably causes many different types of cancer including Hodgkin’s Lymphoma and Leukemia. My family has been dramatically affected by Leukemia. My brother had Leukemia and although he is now in remission our family went through a lot of stress in dealing with his disease. Anything that can be done to prevent Leukemia is important.

**Use quotation marks to show anywhere you “borrow” information and use it word-for-word!**

 If we can detect DHMO then maybe we can keep people from using it. **“**Dihydrogen Monoxide is found in detectable and biologically significant levels in virtually all tumors and other cancerous and pre-cancerous growths.  Cancer research has made significant advances in the detection and treatment of many forms of cancers. With each new advancement, the role DHMO plays in the cause of cancer is likely to be better understood**” (Way).**

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**Credit needs to be given to the original information with in-text, parenthetical citations. It would also be better if more of this paragraph was in Matt’s own words!**

**Works Cited**

“Dihydrogen Monoxide.” *Uncyclopedia*. N.p., n.d. Web. 03 Sept. 2012. <http://uncyclopedia.wikia.com/wiki/Dihydrogen\_monoxide>.

“The Invisible Killer.” *Ban Dihydrogen Monoxide*. U of Delaware, n.d. Web. 03 Sept. 2012. <http://www.netreach.net/~rjones/no\_dhmo.html>.

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Ninjapig123. “What is Dihydrogen Monoxide?” *Answers*. Answers Corporation, n.d. Web. 03 Sept. 2012. <http://wiki.answers.com/Q/What\_is\_dihydrogen\_monoxide>.

**Way, Tom. “Dihydrogen Monoxide and Cancer.” *Dihydrogen Monoxide Research Division*. N.p., 3 Sept. 2012. Web. 03 Sept. 2012. <http://dhmo.org/cancer.html>.**

**This is the source used to write the paragraphs. What do you think of the other sources on this Works Cited page?**

“Your All Natural Friend.” *DHMO*. Scorched Earth Party, n.d. Web. 03 Sept. 2012. <http://www.armory.com/~crisper/DHMO/>.

**DHMO Website Evaluation:**

Uh Oh! It’s possible that you’ve been tricked! This is a “fake” website. DHMO stands for Dihydrogen Monoxide or

|  |  |  |
| --- | --- | --- |
| Di Hydrogen 🡪 2 Hydrogens | **=** | **H2O** |
| Monoxide 🡪 1 Oxide or Oxygen  |

So – that means that **Dihydrogen Monoxide is water.** So the website is claiming that water is truly terrible and the cause of all kinds of problems. While it’s true that water can cause rust and other problems, we need water to survive and it is helpful in many ways. Tom Way, the author, created the website to make a point about the importance of evaluating sources.

**Here are some other basic evaluations of the DHMO website:**

|  |  |
| --- | --- |
| **Good Qualities:** | **Bad Qualities:** |
| The home page has a government “assessment center” icon | The EAC is not a real government organization |
| There is an updated date on the site | The date refreshes every day – it’s just part of the programming on the website.  |
| There is an author listed | If you Google the author’s name, you will discover that he has nothing to do with chemistry or the topic of the website |
| It’s a “.org” website | There are other advertisements on the site and the .org doesn’t really mean anything. There are too many requests to “support the cause” store link so the site is trying to get money. |

\*\* If you continue to explore the DHMO website in detail you will find a lot of misinformation, “fake” people, and other issues. It is your job as an evaluator to look beyond the surface on websites and see if they are really trustworthy!

**Look at all of Matt’s sources on his Works Cited page – are any of them good? Discuss this with your group.**