“Four Moves and a Habit” in General Chemistry Lab

Pre-Lab Quiz Questions and Answers

One of the key elements for teaching the activity is pre-class readings and quiz. Because this activity was taught during a lab section, students already have the expectation of pre-lab work and quiz. This quiz was included in the Canvas course for the lab. Correct answers are in red and italicized.

This quiz was created by [Andrea Verdan](https://www.seattleu.edu/scieng/about/faculty-and-staff/andrea-verdan-phd.html), Seattle University Chemistry Department, and shared with her permission.

**Pre-Lab Quiz Questions** **– Scientific Literacy (Graded by Canvas) [6 pts]**

Instructions: Read the chapters of Mike Caulfield’s online book *Web Literacy for Student Fact Checkers* listed in Scientific Literacy packet. Then answer these quiz questions.

1. [SELECT ALL, 1pt] What are the four “moves” (strategies) in the fact-checking process? Select all responses that are correct.

* *Check for previous work*
* Check your emotions
* *Go upstream to the source*
* *Read laterally*
* Verify Twitter accounts
* *Circle back*

1. [MULTIPLE CHOICE, 1pt] Why is it important to *check your emotions* while reading information on the web?

* Happiness, anger, pride, and vindication are all useful ways to judge facts.
* Emotions help us share correct facts with others.
* *We are inclined to ignore verification when we react with strong emotions to content, so fact checking is necessary.*
* Emotions are a reliable filter to analyze news content.

1. [MATCHING, 1.5 pts] Below are examples of how a “move” should be performed. Match each example with the appropriate “move.”

* When a particular claim, quote, or article is simply “reporting on reporting,” find the original story and evaluate it. – *Go upstream to the source*
* Use a search engine (such as *Google* or *DuckDuckGo*) and the “site” option for fact-checking organizations (such as *Snopes* or *SciCheck*) to look for a particular claim, quote, or article. – *Check for previous work*
* Research and open up numerous tabs to see what other websites and resources say about the source (publication, author, etc.) at which you are looking. – *Read laterally*

1. [MATCHING, 1.5 pts] Complete the statements below with the one best answer related to evaluating journal articles.

* A journal’s influence in the academic community can be measured by – *Impact factor*
* Establishing an author’s position in the academic community can be measured by – *Type, number, and or citations of scholarly publications*
* An accurate summary of the state of research and the consensus of experts in a given area, taking into account majority and significant minority views, can be measured by – *an effective fact-checker*

1. [TEXT ANSWER, 1pt] Search for a news article related to a chemical, either with environmental or health effects, that interests you. Write the website address of the article below. If you have trouble finding a news article, you can use this search tool: <https://app.buzzsumo.com/research/content>