Presenting Green Chemistry to Pre-Service Teachers
Hello!

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1. Our Inspiration

Once surveying our fellow Beyond Benign LTs, it was evident that even much more needs to be shared with pre-service teachers before they have a classroom of their own regarding safety resources and preparation.
“Awareness is the greatest agent for change.”

- Eckhart Tolle
There is a requirement in my district that I have some type of safety certification in order to teach science.

11 responses
Flinn Scientific Safety Contracts.

11 responses

- I have never heard of them. 45.5%
- I know about them, but do not use them. 18.2%
- I use them with all of my classes. 36.4%
- I do not use them, but use something similar I have developed on my own.
- Other-Please explain in the feedback section.
Flinn Scientific-Online Lab Safety Certification Course.
https://labsafety.flinnsci.com/app/

11 responses

- I have never heard of it. 27.3%
- I know about it, but have never taken it. 45.5%
- I have taken it, but it has been several years. 27.3%
- I repeat this course on a regular basis.
- I use a similar course for safety certification.

11 responses

- 36.4%: I have never heard of it.
- 27.3%: I know about it, but do not use it.
- 27.3%: I use it with all of my classes.
- 9.1%: I do not use it, but have something similar I have developed on my own.
- Other: Please explain in the feedback section.
American Chemical Society-RAMP
https://www.acs.org/content/acs/en/chemical-safety/basics.html

11 responses

- 54.5%: I have never heard of them.
- 36.4%: I have heard of them, but never used them.
- 9.1%: I reference this website often.
- 5.1%: There is a different website I use to determine the safety of the chemicals I am using in my labs.
Rehab the Lab resources.

11 responses

- 72.7%: I have never heard of them.
- 18.2%: I have heard of them, but never used them.
- 9.1%: I reference this website often.
- 0%: There is a different website I use to determine the safety of the chemicals I am using in my labs.
Preservice Teacher Workshop

- Grand Valley State University - Fall 2019
- Central Michigan University - Spring 2020 (canceled)
- Interactive, hands-on, and explorative learning style
“We can not solve our problems with the same level of thinking that created them.”

- Albert Einstein
Learning Targets

- Understand the importance of lab safety
- Practice replacement labs
- Gain access to safety resources
- Understand green chemistry principles and how activities can be “greenified”
Top 3 Reasons to “Greenify” Chemistry Education

Reason 1: Keeping you and your students safe! Green chemistry allows for you to be proactive instead of reactive about chemical safety.

Reason 2: Green chemistry resources tend to be less expensive and easier to obtain. Many materials are household substances.

Reason 3: Real world connections. Using common substances allows for students to make connections with chemicals familiar to them.
“Green chemistry is not only safer and more sustainable, it’s more engaging; students can more readily process phenomena when the materials involved are not additional vocabulary to be learned.”
-GVSU Student Feedback

“Loved it! I liked the replacement lab ideas the most! I had never heard of green chemistry before, but it makes sense.”
-Grand Valley Student Feedback
Vision for Next Year
Thank You!

ANY QUESTIONS?
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