

Data Visualization Best Practices Workshop Teacher Report - Alison Murray

Name: Alison Murray

Area(s) of Teaching: Environmental Chemistry, Computer Science, Engineering, Physics

Where You Teach: Central Falls High School

Please describe your activity goal:

The first summative evaluation in Environmental Chemistry involves assigning each student a different atom and having them construct a sales poster for the atom. The poster must contain things such as a graphic representation of the atom with the correct amount of protons, neutrons and electrons, facts about the atom, its atomic number and mass, its isotopes, its discoverer and date of discovery, common uses of the atom, interesting facts about the atom, pictures of how it is found in nature and/or things it can be found in, etc. In previous years the format of this project was always as an advertisement selling the atom and it was done in class as a physical poster. Since I have to plan for the possibility that we may or may not be virtual this project will no longer be able to be done as a physical poster since our students do not have access to the supplies.

What is the intended visualization?

The intended visualization is an infographic about a specific element (atom) off of the periodic chart. It includes the items listed below in the activity wording and a pie graph with the relative numbers of electrons, protons and neutrons for the atom the students were assigned.

Please provide the activity wordings presented to the students:

https://docs.google.com/document/d/1jkDVJwEkU9AGfyXy_KAfFbkL-E7JBTcNYByup81X5w8/edit?usp=sharing

Please describe the nature of the activity (e.g. In class activity? Homework? Something else) and the rationale behind your choice.

This is normally an activity where the bulk of it is done in class as it is a summative assessment.

Were students engaged?

N/A

What is/are the dataset(s) that will be used for the activity? How students will access the dataset(s)?

What tool(s) are students going to use? How will students have access to the tool(s)?

Students will be using the free version of Piktochart. They will access it on their chromebooks.

How you are going to grade the activity? (e.g. Rubric)

Using a [checklist type rubric to](#) (see wording section) to make sure they included everything that was asked for.

Do you think you will keep incorporating data visualization in the future?:

Yes