Data Visualization Best Practices Workshop Teacher Report

Name: Patricia A. Piros_____

Area(s) of Teaching: Computer Science and Special Education_____

Where You Teach: East Providence High School and Career & Tech._____

Please describe your activity goal:

The Introduction to Computing and Data Science course includes a section on data that previously used Canva to do infographics. We decided to add (replace) Canva with Piktochart because Piktochart is more statistical rather than graphical although it does have cool graphics to engage the students. During the activity students will become familiar with Piktochart to create an Infographic/visualization of a data set.

What is the intended visualization?

The project we will have the students use the set of data about Narragansett Bay animals and each student being assigned an animal. They then make an infographic using the data about the animal and other background information that they will research about the animal.   Their infographic should include a graph generated from their data set, at least one picture of their animal and some background information about their animal.

Please provide the activity wordings presented to the students:

Students will follow the Creating a Data Visualization Using Piktochart Activity Guide

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

This activity is a class activity which may take two class periods.   Having students work on the assignment in class will allow me to provide direct instruction and guide students as they progress through each step of the activity. I will be able to answer questions and monitor student progress and clear up any misconceptions of the activity.

Were students engaged?:

 Will follow up after the assignment has been completed with students.

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

Data sets are as follows for this activity:
NB Fish and Shellfish Abundance Data Sheet **assign species from this data set**

https://web.uri.edu/fishtrawl/data/ (data repository and metadata info)
https://web.uri.edu/fishtrawl/ (information on the trawl survey)
https://web.uri.edu/fishtrawl/files/GSO_Fish_trawl_report_2017-2.pdf (report with a brief overview)
https://drive.google.com/drive/folders/1EvogKsck7xEKfNisQWp2URt0BzWhXPC1

Students will be provided with the links to access the data sets.

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

Students will use the following tools which will be accessed through the internet:

- ❖ Computer with Internet access
- ❖ Google Classroom
- ❖ Piktochart.com
- ❖ Google Sheets
- ❖ Internet - Chrome, Firefox, Safari or their preference of a browser.

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

A Rubric for the Creating a Data Visualization Using Piktochart Activity Guide will be used to assess this activity.

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

I plan to continue to incorporate data visualization in the future and add as an activity to each class I teach. It's important that students know how to interpret data and present it visually. Presenting data using visuals has a tendency for individuals to understand as they are presented in a way that shows data in patterns or trends in the data.