Instructional Lesson Plan

Content Area(s)/Course/Grade: Math Grade 8	Unit: Bivariate Data
Lesson Topic: Modeling data regarding gender wage gaps	Approx. Date/s: MP2

Diversity Integration Topic: Gender Equality	NJSL Standard/s: 8.SP.A.1 Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association. 8.SP.A.4 Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores?

Textbook, Materials, Resources:

https://studentwork.prattsi.org/infovis/visualization/gender-wage-gap-exist-providing-statistical-graphs-showing-positive-results-2/

data.oecd.org

data.worldbank.org

data.gov

Lesson Objective:

Students will be able to describe patterns associated between two quantities

Instructional Delivery
Culturally Responsive Teaching strategy: Making Learning contextual: Connecting to real world situations
Procedures: Students will work in groups to come up with an association between two quantities from scatter plots they have researched. Students will describe the patterns that they see. Teacher will model how to describe the data based on the gender wage gap. https://studentwork.prattsi.org/infovis/visualization/gender-wage-gap-exist-providing-statistical-graphs-showing-positive-results-2/

Assessment/Evaluation
Formative/Summative: Students' turned in research
Closure: Students will share with class what they learned about their gender and the differences in pay that exist

Teacher's Name submitting plan: Math Department
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