

Cleveland Taylor

LESSON PLAN

CLASS: STA 2023 Statistical Methods

OBJECTIVE: To have students critically examine their collective and individual impact on the environment in matters relating to waste production and disposal.

ACTIVITIES:

- 1) Students will write a one page personal profile which must include, but is not limited to, the following:
 - a) Estimating how much waste he/she produces on a day to day basis and as well as identifying at least one strategy to reduce this quantity.
 - b) Estimating how much material he/she recycles on a day to day basis as well as identifying at least one strategy to increase this quantity.
 - c) Estimating how much material he/she reuses on a day to day basis as well as identifying at least one strategy to increase this quantity.
- 2) Groups of four or five students will choose a topic such as Carbon Emissions, Fossil Fuel Consumption, Waste Production, Waste Recycling, EfW facilities, etc., and present a Time Series plot that looks at the chosen category as it was 10 year ago, as it is now, and project, under reasonable assumptions, what it may look like 10 years from now.
- 3) Groups of four or five students, through a one page paper, will identify ways to collectively educate or influence their neighborhoods, cities, counties, states, on rethinking, reducing, reusing, recycling.

EVALUATION: Students personal reflections, Time Series Plot and one-page paper will be graded using a rubric designed for each one.