# Monitoring the Future Student Activity Worksheet

**Overview:**

In this activity we will be utilizing an interactive data tool in order to create graphs and answer questions about the Monitoring the Future Annual Survey of Teen Drug Use. Please follow along with the instructions below and answer the questions accordingly.

**Introductory Questions:**

1. What is the sample of the Monitoring the Future Study?

2. What is the population of the Monitoring the Future Study?

**Instructions Part 1:**

1. Open the interactive Monitoring the Future data tool by navigating to the following link : https://teens.drugabuse.gov/teachers/stats-and-trends-teen-drug-use
2. Scroll down to the interactive map displaying “Any Vaping”
3. In the “drug” field, select “Any Vaping” and “Cigarettes (any use)”. (Uncheck any other boxes that are checked and select “Apply.”)
4. For “Year,” select “All”; then select “Apply.”
5. For “Duration,” select “Past Month.” (Uncheck any other boxes that are checked and select “Apply.”
6. For “Grade,” select “All”; then select “Apply.

**Questions Part 1:**

1. In 2018 what percentage of 12th graders report vaping in the past month?

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2. In 2018 what percentage of 12th graders report smoking cigarettes in the past month?

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3. The red line represents 12th graders and their use of vaping and cigarettes in the past month. Looking just at the “Any Vaping” graph, how has the percentage of 12th graders vaping changed from 2016 to 2019?

    a. Increased

    b. Decreased

    c. No Change

4. Looking at just the “Cigarettes (Any Use)” graph, how has the percentage of 12th graders vaping changed from 2016 to 2019?

    a. Increased

    b. Decreased

    c. No Change

5. What is the relationship between 12th graders vaping from 2016 to 2019 and 12th graders using cigarettes from 2016 to 2019?

    a. Positive Correlation

    b. Negative Correlation

    c. One caused the other

    d. No Correlation

6. Why do you think vaping increased over time? And why do you think smoking decreased?

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7. The orange line represents 10th graders and their use of vaping and cigarettes in the past month. Looking just at the "Any Vaping" graph, how has the percentage of 10th graders vaping changed from 2016 to 2019?

    a. Increased

    b. Decreased

    c. No Change

8. Looking again at the “Any Vaping” graph, how has the percentage of 8th graders vaping changed from 2016 to 2019?

    a. Increased

    b. Decreased

    c. No Change

9. What is the relationship between $8^{th}$ and $10^{th}$ graders vaping from 2016 to 2019?

    a. Positive Correlation

    b. Negative Correlation

    c. One caused the other

    d. No Correlation

10. The percentage of 8th grade past month vapers every year is lower than the percentage of 10 grade past month vapers. What ideas do you have for why this might be?

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**Instructions Part 2:**

1. Now let's think a little more about Vaping only.
2. In the "drug" field, uncheck "Cigarettes (any use)" and select "Apply."
3. For "Duration," select "Past Month" and "Lifetime" and select "Apply"

**Questions Part 2:**

1. Overall, how has the percentage of lifetime AND past month vaping changed from 2016 to 2019?
    a. Increased
    b. Decreased
    c. No Change
2. Look at the red line showing the percentage of 12th graders who have ever vaped in their *lifetime* and have vaped in the *past month*. Which category has higher overall rates?
    a. Lifetime
    b. Past month
3. Why do you think rates of vaping are higher among the "Lifetime" category than the "Past Month" category?