**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:**

**Do Now: Data Explore Your Prior Knowledge** **(5 minutes/ 5 points)**

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| |  | | --- | | 1. What is data? | |  |  |  | | --- | | 1. How/where do we store data? | |  | |

**Mini Lesson: Understanding Data & Navigating a Spreadsheet (10 minutes/ 5 points)**

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| **Definitions:**   |  | | --- | | Data: are **facts and statistics** collected together for **reference and analysis**. |  |  | | --- | | Data Visualization: Data visualization is how we **communicate data**. It is the **graphic representation** of data. It involves producing images that **communicate relationships** between the represented data to viewers of the images. |   **Pen a Prediction:**   |  | | --- | | When would we want to use different kinds of data visualizations? | |

**Activity: Building dataframes (20 minutes/ 10 points)**

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| **Data Exploration:**   |  |  | | --- | --- | | **Prompt** | **Actions Taken To Get The Information** | | Example:  Find the song that was number one on the date of the week closest to your birthday. | 1.Click on the #1 filter to sort for #1 songs  2. Then click on the Week ID filter and check December  3. Then check which number date in December is closest to my birthday. | | How many different number one songs were there in 2019? |  | | What were the number one songs in 2019? |  | | What song was number one the longest? How do you know? |  | | What are the top 10 most featured artists? |  | | What are the top ten songs spending the most weeks on the chart? |  | | How would you calculate the percent of the year that a given artist spent at the #1? |  | | Attempt to follow a song in the top 10. When did it first appear there? How long was it there? When does it leave? How do you know this? |  |   **Exit Ticket (5 min, 5 pts)**   |  | | --- | | What benefits can you see about using spreadsheets?    Which prompts were most difficult to complete? What about them made them more difficult to complete?    What would you like to be able to do with the data but are currently unable to? |   HOme |

**Homework: 10 pts**

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| Think of some information you could learn from manipulating this spreadsheet .  Using KtS, write the steps you would need to take to get the information from the spreadsheet.  Then, write an algorithm for a computer to find that information. |