

## SENIOR RESEARCH MATH TEACHER TALKING POINTS:

Here are some tips to guide you when trying to decide what to discuss during math contracts:

- We haven't looked at your paper yet, so give us your problem statement and a brief description of your experimental design.
- PLEASE BE PREPARED! We will ask how your numbers model what is happening in the real world. We will ask if you have scaled things up or down appropriately based on previous research. We will ask you why you make certain choices for the numbers in your experiment. (ex. For a DOE, why/how did you choose your low, standard and high values)
- Realize that our purpose is to make sense of the numbers and how you will use them 😊
- Please identify your variables (Independent and Dependent). Focus on the numbers. Include your units of measure. Please be sure to indicate how you are figuring/calculating the Dependent Variable.
- Discuss the number of trials. We need to make sure that you are running enough of them to get "good data."
- Have a chart/diagram ready that details how you plan to randomize your experiment.
- Be ready to discuss your hypothesis.
- Indicate how your statistical analysis will address (answer) your problem statement. Be ready to discuss why that test is appropriate.
- Be ready to discuss your findings from pre-trials.