

Name: _____

Date: _____

IDS Unit 2 Design Project and Oral Presentation

Available data sets:

1. Food Habits
2. Time Use
3. Stress/Chill
4. Personality Color

Your mission is to ask and answer a statistical question using at least one data set above.

1. Your question must include a comparison of 2 distinct groups.
2. Your analysis should address whether any observed differences are real or could be simply due to chance.
3. You should use at least 2 of the following methods to answer your question with appropriate explanations:
 - ☐ Merge data
 - ☐ Create simulations
 - ☐ Calculate probabilities based on simulations
 - ☐ Use a Normal model
 - ☐ Shuffle/permute data

You will have 5 days to complete this project with your assigned partner. You need to:

- ☐ Prepare an oral presentation (both partners need to participate) that includes:
 - A 4-slide, 5-minute presentation
 - An explanation of why you think your statistical question is interesting
 - An interpretation of supporting plots and summaries that answer your question
 - A reasoning of whether you think the outcome might be due to chance



- ☐ Submit a 2 - 4 page, typed, double-spaced summary of your analysis.



Project Assignment Sequence:



- ☐ Day 1: Decide on a statistical question with assigned partner; get approval from teacher
- ☐ Day 2: Working day for analysis – create plots and numerical summaries
- ☐ Day 3: Working day for analysis – create presentation (4 slides maximum)
- ☐ Day 4: Presentations
- ☐ Day 5: Presentations