Name:	Date:

End of Unit 2 Project Comparing Groups Using Our Own Data

Available datasets:

- 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 dataset above.

- 1. Your question must include a comparison of two distinct groups.
- 2. Your analysis should address whether any observed differences are real or could be simply due to chance.
- You should use at least two 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.