

## Stress/Chill Campaign

### 1. The Issue:

People report being more and more stressed everyday. This trend is extending beyond adults, and is also reported by children and teenagers. The amount of work people are responsible for doing has been increasing. To understand what makes us feel stressed, some important questions to ask are:

- 1) What factors affect my stress/chill level?
- 2) Do different personality types have different things that make them happy/sad?
- 3) Do you like to be alone or with people?
- 4) Is your stress/chill level a function of the environment in which you find yourself?

### 2. Objectives:

Upon completing this campaign, students will have compared groups and gained an understanding of variability within and between groups. They will have learned how to conduct and use permutations to model variability, perform informal inference, and how to do simulations to make predictions.

### 3. Survey Questions: (students will enter data only for the activities in which they participated):

Use a random number generator to generate 2 random times a day for the next 5 days, including a weekend if possible. If a time falls within the school day, it is up to the discretion of the teacher to use this time or not.

Prompt	Variable	Data Type
Take a photo of what you are doing right now.	photo	photo
How stressed are you feeling right now? (3 is very stressed, 0 is not stressed at all)	level	integer
How many people are you with (not counting yourself) up to 107,282?	howmanypeople	integer
Who are you with? -alone -friends -family -friends and family -classmates -teacher -teacher and classmates -strangers	who	categorical
Where are you? -school -work -home -public place -others' house -commuting	where	categorical
Why are you here (in one word)?	why	text
AUTOMATIC	location	lat, long
AUTOMATIC	time	time
AUTOMATIC	date	date

**When?** Surveys are taken 2 to 3 times per day at predetermined randomly selected times.

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**How Long?** About two weeks. Ideally, 2 of these days include a weekend.

### 4. Motivation:

Students must understand that they need to keep collecting data. Use the Plot App to look at the data after the first day and have a discussion.

Ask: Why were most people stressed? Guide students along the way.

Ask students to predict the following: What is your stress/chill level in the evening versus morning? Does it change everyday? How about during the weekend? What is the difference between groups?

Data collection: After the first day, use the Campaign Monitoring Tool to see who has collected the most data.

### 5. Technical Analysis:

Students will use RStudio.

### 6. Guiding Questions:

- a) Have students generate predictions and check up on their predictions.
- b) What's the typical stress/chill level of the class across the campaign?
- c) What's my typical stress/chill level and how does it compare to the whole class?
- d) Do the stress/chill levels vary by weekday or weekend, or by the type of people you are with?
- e) Under which conditions is my stress/chill level affected?
- f) Encourage students to generate their own questions.

### 7. Report:

Students will complete the Stress/Chill Practicum. They will analyze their stress/chill data using data analysis skills and RStudio skills learned in the unit.