**Week 4, Day 1**

* Building Models (prepping for Ch. 3) 🡪 Data 231 only
  + Part A (linear) 🡪 in groups of 3  
    Discuss:
    - Guesses
    - Answers
    - Concept of interaction
  + Takeaways:
    - Importance of plotting your data!
    - No interaction between predictors is a special case of allowing for interaction.
    - When does a variable actually matter? (Show picture of Part B)
    - How much harder do you think it’s going to be when the other term is numerical?
    - Writing down an equation at all to connect Mean(Y) to the predictors is a big assumption.
* Simple vs. Multiple Linear Regression Comparison (on Moodle)
* Activity: NHANES Part I

**For Thursday**:

* Finish & submit NHANES Part I (one per pair – include both names!)
* Read Sections 3.4-3.5
* Homework #2 due