Use the following questions as a guide to design an experiment that tests the effects of private tutoring on Math 104 students’ final exam scores. Please discuss all of the questions first, and then record your group’s responses below.

1. How will you incorporate comparison into the design of your experiment?

2. How will you decide which students belong in the treatment group, and which belong to the control group?

3. What factors might be confounded with the effect of private tutoring on the final exam score if the experiment is not designed properly?
4. Does it make sense to use a placebo with this experiment? How could you do so?

5. How could you incorporate double-blinding into the design of your experiment?

6. How would your study design change if this were an observational study, rather than a controlled experiment?

7. If you did an observational study on the effects of private tutoring on Math 104 students’ final exam scores, what variables would you have to control for?