

Grade 12

Distance Learning Module 1: Basic Principles of Research Design

Week of: 3/30-4/3 (5 Days)

Statistics Level 2 - Modified from [Unit B: Research Design](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Basic principles of research design

Vocabulary: Experiments, subject, treatment, confounding variable, lurking variable, randomization, control group/placebo

Skills: Design a research model, randomize subjects to treatments

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Review definitions: Experiments, subject, treatment, confounding variable, lurking variable	notes ch 6 slide 3	Respond to the prompt: What is something that you might want to investigate with an experiment
Tuesday: Review control groups/placebo	notes ch 6 slide 4	Respond to the prompt: How is a placebo a useful tool in implementing a control group?
Wednesday: Review principles of experimental design and video about coffee experiment	notes ch 6 slide 5	Respond to the prompt: Apply the 3 principles of design to the coffee experiment
Thursday: Review randomizing subjects to treatments notes and video	notes ch 6 slide 6	Respond to the prompt: How could you randomize subjects to treatments in the coffee experiment
Friday: Meet online during assigned time regarding	PBA B: Research Design Assignment	Submit a topic for research design on the PBA assignment (Stage 1)

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
PBA A.		

Week criteria for success (attach student checklists or rubrics): 4 completed prompts

Supportive resources and tutorials for the week (plans for re-teaching): notes and attached videos in the slides: notes ch 6