AP Statistics - Chapter 2 Learning Targets  
  
I understand the difference between an observation and an experiment.  
  
I can determine possible confounding variables in observational studies.  
  
I understand that cause-and-effect can only be determined from a well-designed experiment.  
  
I can determine the type of bias present in a sampling situation.  
  
I can define simple random sample.  
  
I can describe the four other sampling methods.  
  
I can determine the different parts of an experimental design including the explanatory variable, the response variable and experimental units.  
  
I can list possible extraneous factors in an experiment.  
  
I can explain how the four fundamental design principles, randomization, blocking, direct control, and replication are used in the experimental design.  
  
I can explain the terms: control group, placebo, single-blind and double-blind.