

Science 7 Unit A Study Guide

Name _____

Per _____

Know the following vocabulary:

Pellegra	Placebo	Scientific Question	Uncontrolled Variable
Data	Placebo Effect	Hypothesis	Qualitative Data
Evidence	Effectiveness	Manipulated Variable	Quantitative Data
Observation	Safety	Responding Variable	Sources of Error
Inference	Trade-offs	Control Trial	Reproducible
Informed Consent	Scenario	Experimental Trial	
Clinical Trial	Study Subject	Controlled Variable	

Know the

- experiment Goldberger performed.
- difference between observations & inferences and how we use them in science.
- difference between data and evidence
- parts and steps of a well-designed scientific experiment.
- difference between qualitative and quantitative data.
- 6 sources of error

Given a scenario, able to perform a situational analysis, which includes being able to:

- identify study subjects, manipulated & responding variable(s), Control & Experimental trials.
- identify controlled & uncontrolled variables (including ones that matter & don't) in an experiment.
- create and identify correct hypotheses and questions
- draw proper conclusions from evidence collected in an experiment

Know the:

- basics of a Clinical Trial (Placebo, which trial Placebo is in, elements of informed consent)
- calculate both the % effectiveness and % safety from the results of a clinical trial

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