

Objective Sheet 1

SCIENCE INQUIRY

HUMAN PERSPECTIVES CHAPTER 1

1. UNDERSTAND THE PROCESS SKILLS OF SCIENCE ASSOCIATED WITH DESIGNING AND PERFORMING CONTROLLED EXPERIMENTS, COLLECTING, RECORDING, PRESENTING, INTERPRETING AND EVALUATING DATA
2. WRITE A HYPOTHESIS FROM GIVEN INFORMATION
3. DISTINGUISHED BETWEEN AN INDEPENDENT AND A DEPENDENT VARIABLE
4. LIST VARIABLES THAT SHOULD BE CONTROLLED IN A GIVEN EXPERIMENT
5. DISTINGUISH BETWEEN A CONTROL GROUP AND AN EXPERIMENTAL GROUP
6. DISTINGUISH BETWEEN QUALITATIVE AND QUANTITATIVE DATA
7. DESCRIBE THE USE OF PLACEBOS IN CONTROLLED EXPERIMENT
8. KNOW THE DIFFERENCE BETWEEN A LONGITUDINAL STUDY AND WRITTEN SURVEY
9. EXPLAIN WHAT A CASE STUDY IS
10. EXPLAIN THE DIFFER BETWEEN VALIDITY AND RELIABILITY
11. KNOW WHAT AN OUTLIER IS
12. CONSTRUCT DATA TABLE FOR RESULTS
13. CONSTRUCT THE APPROPRIATE GRAPH FOR GIVEN DATA
14. DEMONSTRATE MANIPULATIVE SKILLS ASSOCIATED WITH MEASUREMENT OF PHYSICAL QUANTITIES AND BASIC LABORATORY PROCEDURES