

**Fowler Science Process Skills Assessment
Pre-Test/Posttest Scoring Sheet**

Name of Student _____

School _____

Score one point on student paper for each item incorporated into design. Score two points if more than one sub-item is listed for a specific item.

Pre			Post
	plans to practice SAFETY		
	states PROBLEM or QUESTION		
	PREDICTS outcome or HYPOTHESIZES		
	lists more than 3 STEPS		
	arranges steps in SEQUENTIAL order		
	lists MATERIALS needed		
	plans to REPEAT TESTING and tells reason		
	other items listed by student but not on list		
	DEFINES the terms of the experiment: “attracted to” “likes” “bees” “Diet Cola”	DEFINES the terms of the experiment: “attracted to” “likes” “earthworms” “light”	
	plans to OBSERVE		
	plans to MEASURE : (e.g., linear distance between bees, and/or cola, number of bees, time involved)	plans to MEASURE : (e.g., linear distance between worms, and/or light, number of worms, time involved, amount of light)	
	plans DATA COLLECTION : graph or table; note taking; labels		
	states plan for INTERPRETING DATA : comparing data; looking for patterns in data; in terms of definitions used; in terms of previously known information		
	states plan for making CONCLUSION BASED ON DATA : (e.g., time to notice drinks; bees may not be hungry; distances to sodas are equal; time involved for two samples is equal; temperature, light, wind, etc, are equal)	states plan for making CONCLUSION BASED ON DATA : (e.g., time to notice light; distances to light and shade are equal; time involved for two samples is equal; temperature, wind, etc, are equal)	
	plans to CONTROL VARIABLES : (e.g., bees not hungry; bees choose diet or regular soda; distances set equally; amounts of soda equal; number of bees tested are equal; temperature, light, wind, etc, are equal)	plans to CONTROL VARIABLES : (e.g., worms choose dark or light; distances set equally; number of worms tested are equal; time involved is equal; temperature, wind, etc., are equal)	

Pretest Score: _____

Name of rater: _____

Date: _____

Post test score: _____

Name of rater: _____

Date: _____