

Prior Knowledge Questionnaire

Experimental Design Unit

Integrated Science 1 – Redwood HS

Name: _____

Per: _____

Last School Attended: _____ MS HS

Last Science Teacher: _____

I am a 9th grader and did not take science in the 8th grade

I am a 10th grader and did not take science in the 9th grade

This questionnaire is intended to determine what level of experience you had in prior science classes on topics found in the first unit of Integrated Science 1. You may not know the answers to some of the questions. DO NOT WORRY!

By the end of our first unit, you will know all of the answers.

1) Thinking back on all of your lab activities in the 7th and 8th grade, how many required you to design the experiment? Designing an experiment means you would have written your own hypothesis and procedures, collected your own data, etc.

1 2 3 4 or more

2) For each of the following, please check the appropriate box that describes your level of understanding.

	Very familiar	Heard of it, but not too sure	Never heard of it
Independent Variable			
Dependent Variable			
Constants			
Control			
Data Analysis			

3) How much experience and knowledge do you have constructing graphs?

I'm awesome, best graph-maker ever!	I know what I'm doing, but I don't always get full credit	I know what a graph is, but mine never seem to come out right.	What's a graph?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4) Do you know what a coordinate point is? YES NO
If yes, please explain.

5) Two letters are used to identify the two axis of a two-dimensional graph. Please identify them.

_____ and _____

6) Which letter is used for the horizontal axis and which letter is used for the vertical axis?

horizontal: _____ vertical: _____

7) What is the purpose of a data table?

8) To the best of your knowledge, have you received direct instruction in class from a teacher on how to construct a data table?

YES NO

9) If I were to ask your 8th grade science teacher if you should know how to create data tables and graph data, would he/she say yes or no?

YES NO

10) What are your strengths as a science student?