

Physical Science 1 SLOs

Student Learning Outcome	Method of Assessment
1) Student will be able to employ dimensional analysis to convert between the metric and British system of units.	Assessment instrument will be a final exam that contains questions and/or problems specific to each concept listed in the Course Outline's Course Content and Scope.
2) Student will be able to quantitatively and qualitatively explain key concepts and solution methods for problems concerning force, motion, energy, heat, and electricity and magnetism.	Assessment instrument will be a final exam that contains questions and/or problems specific to each concept listed in the Course Outline's Course Content and Scope.

Physical Science 1 SLOs

Student Learning Outcome	Method of Assessment
3) Student will be able to employ organized and methodical techniques for problem solving.	Assessment instrument will be a final exam that contains questions and/or problems specific to each concept listed in the Course Outline's Course Content and Scope.
4) Student will be able to identify components of the periodic table, distinguish between ionic and covalent bonding, and employ nomenclature to chemical compounds. Student will be able to predict the behavior of chemical elements based on their location in the periodic table of the elements and balance chemical equations in accordance with the law of conservation of mass.	Assessment instrument will be a final exam that contains questions and/or problems specific to each concept listed in the Course Outline's Course Content and Scope.

Assessment of SLO Success

- Enter all raw data into spreadsheet, including points awarded per question
- Determine maximum total point value on exam for each SLO
- Determine EARNED point value on exam for each SLO
- Convert the ratio to a percentage:

$$\% = \frac{TPE}{TPP} \times 100$$

TPE = Total Points Earned
TPP = Total Points Possible

Assessment of SLO Success

- For example, Jane Doe earned 45 out of a total of 55 points on questions that satisfy Student Learning Outcome 1. Therefore, her percent success (%) is equal to

$$\% = \frac{TPE}{TPP} \times 100 = \frac{45}{55} \times 100 = \boxed{82\%}$$

TPE = Total Points Earned
TPP = Total Points Possible

- So, Jane received a rating of 82% success on SLO 1!!

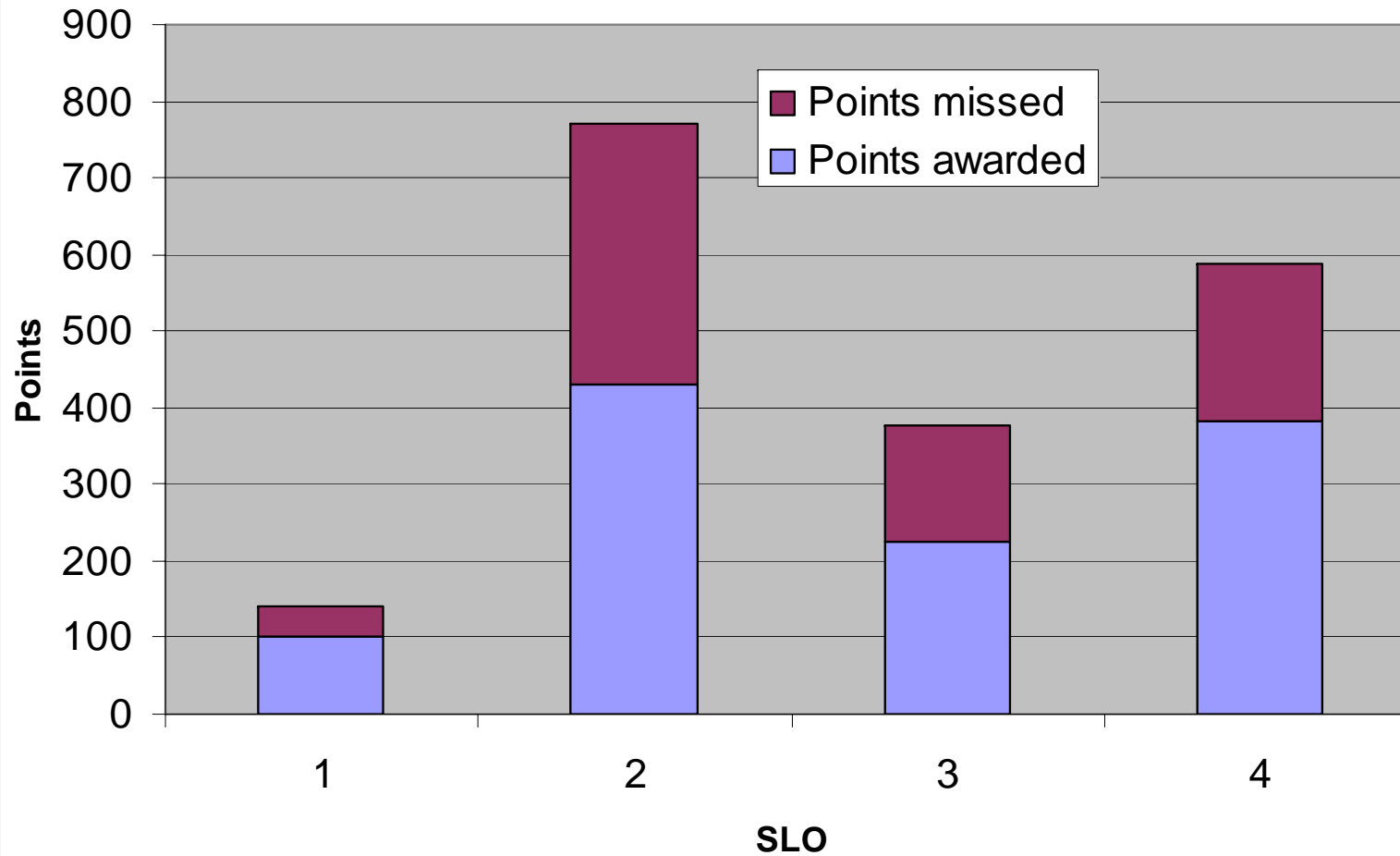
Example of Raw Data Entry

Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
1	0	0	2	2	0	0	2	0	0	0	2	2	2	0	0	0	2	2	2	2	2	0	2	2	2	2	
2	0	2	2	2	2	0	0	0	2	2	0	2	2	2	0	0	2	0	2	2	2	2	2	2	2	2	
3	0	0	0	2	0	0	2	2	0	2	2	2	2	2	2	0	0	0	0	2	0	2	0	0	2	2	
4	0	2	2	2	0	0	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	2	2	2	2	
5	0	2	2	2	2	2	2	0	2	2	0	2	2	2	2	0	2	0	0	2	2	2	2	2	2	0	
6	0	0	0	2	2	0	2	2	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	2	0	2	
7	0	0	0	2	0	0	2	2	0	2	2	2	2	2	0	2	0	0	0	2	2	0	2	2	2	2	
8	0	2	0	2	2	2	2	2	0	2	2	2	2	2	0	0	2	2	2	2	0	2	0	2	2	2	
9	0	0	0	2	0	0	2	2	2	2	2	2	2	2	2	0	2	2	0	2	0	2	0	2	2	2	
10	2	0	0	2	0	0	2	0	0	0	0	0	2	2	2	0	0	0	0	2	0	0	0	2	2	2	
11	0	0	0	2	0	2	2	2	2	2	2	2	2	2	2	0	2	2	2	0	2	2	0	0	2	2	
12	0	0	2	2	2	2	2	0	0	2	2	2	0	2	2	2	0	0	2	0	2	2	2	2	2	2	
13	2	0	2	2	2	2	2	2	0	2	0	2	2	2	2	0	2	0	2	0	2	2	0	0	2	2	
14	0	0	0	2	0	0	2	2	2	0	2	0	2	0	2	0	0	0	2	0	0	2	0	0	2	2	
15																											
16																											
17																											
18																											
19																											
20																											
21																											
Total	4	8	12	#	#	#	#	#	#	#	20	20	20	26	24	18	4	16	10	16	20	16	20	12	20	26	26

- List each question
- List each student for overall results
- Enter points earned on each question

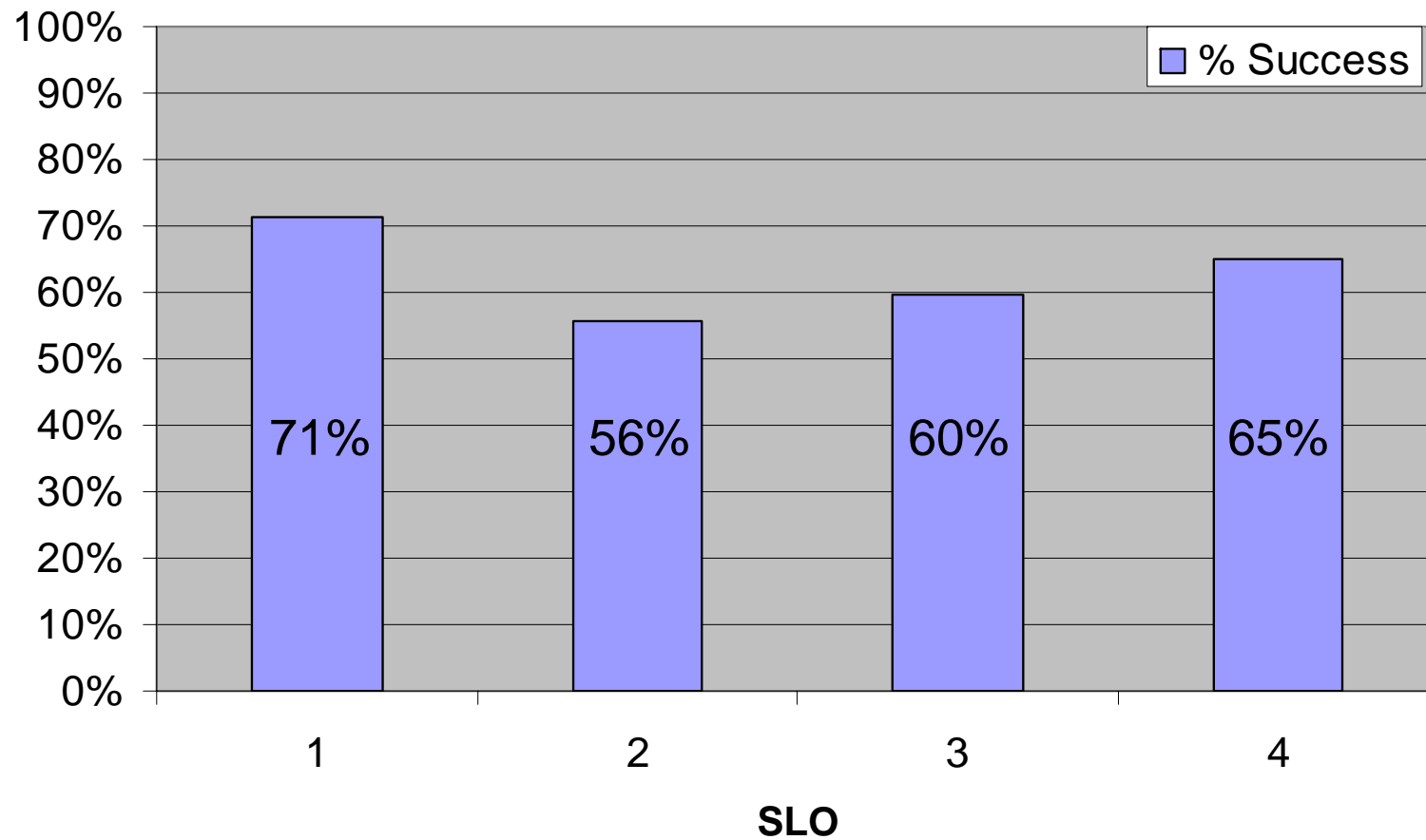
Assessment of SLO Success

Overall SLO Point Assignment



Assessment of SLO Success

Overall Percent Success for PHYSICI 1 SLOs



Assessment of SLO Success

Percent Success for PHYSCI 1 SLOs - Jane Doe

