Standard 1: Understanding measurements

* 1. Choose appropriate units for a measurement, converting between units when necessary. *Questions 1, 2, 10, 11 and 12*
  2. Record measurements to an appropriate precision including uncertainty. *Questions 3, 13, and 14*
  3. Discuss the accuracy and precision of data. *Questions 4 and 15*

Standard 2: Understanding matter.

2.1 Differentiate between pure substances and mixtures. *Questions 5 and 17*

2.2 Classify matter as an element, a compound, a pure substance, heterogeneous

mixtures and homogeneous mixtures, including solutions, suspensions and colloids. *Questions 6 and 16*

2.3 Choose an appropriate method for separating mixtures. *Questions 7 and 18*

2.4 Differentiate between physical and chemical properties and changes. *Questions 8,*

*9, 19 and 20*

*What is a 7?* Student has mastered all of the standards. *How do we know?* Student earns marks for almost all of the benchmarks within a standard. Makes only minor mistakes within any given standard. Roughly equivalent to earning ≥ 80% of all marks.

*What is a 6?* Student has mastered all of the standards. *How do we know?* Student earns marks for most of the benchmarks within a standard. Makes only minor mistakes within any given standard. Roughly equivalent to earning 70% – 79% of all marks.

*What is a 5?* Student has mastered most of the standards. *How do we know?* Student earns marks for most of the benchmarks within the standards, but makes at least one major mistake in one of the standards. Roughly equivalent to earning 60% - 69% of all marks.

*What is a 4?* Student has mastered some of the standards. *How do we know?* Student earns marks for only some of the benchmarks within the standards with multiple major errors. Roughly equivalent to earning 50% -59% of all marks.

*What is a 3?* Student limited mastery of standards. *How do we know?* Student has difficulty meeting most standards and makes multiple major and minor errors related to the benchmarks. Roughly equivalent to 40% - 49% of all marks.

*What is a 2?* Student has not shown mastery of the standards. *How do we know?* Student makes major errors in all of the standards and earns marks for only some of the benchmarks. Roughly equivalent to 30% - 39% of all marks.

*What is a 1?* Student has not shown mastery of the standards. *How do we know?* Student has only earned some of the marks, but is limited to basic factual recall. Multiple major errors are made throughout all of the standards and benchmarks. Roughly equivalent to 0% - 29% of all marks.

Reflection Questions

1. Which standards were your strengths?

Standard 1\_measurements

1. Which standards were your weaknesses?

Standard 2\_matter\_colloid and suspension

1. What minor error(s) did you make? How could you fix them?

No minor errors.

1. What major error(s) did you make? How could you fix them?

The difference between colloids and suspension and emulsion.

Read my notes again…

1. After counting your marks and calculating your percentage, how well does the percentage match the description of the grade?

I got 100% and that matches the grade of a 7

1. What questions do you still have about matter and measurement after this assessment?

I still can’t distinguish suspensions, colloids and emulsions perfectly.

1. If you could change the grade descriptors above, how would you change them? Please be specific.

No changes.