Vocabulary Metric Mania (MM)

Do NOT do a roundhouse!!!

\*\*Pay close attention to the paired terms. It is important that you understand the difference between the pair of words\*\*

1. **International System of Units (SI):** the metric system used in science to record data. The most common base words are; *meter, gram, liter and second*. There are 6 prefixes we will learn; *Kilo, Hecto, Deka, deci, centi, and milli.*

2. **Accuracy/Precision** : Accuracy is the description of how close a measurement is to an accepted or true value. Precision is a description of how similar or close measurements are to each other.

3. **Significant Digits** : the number of digits in a measurement that are known with a certain degree of reliability.

4. **Mass/Weight** : Mass refers to the amount of *matter* in an object and is measured using a triple beam balance in grams. Weight is your mass times the gravity constant, which on Earth is 9.06 m/s2

5. **Density**: a measurement of how tightly packed the atoms are in an object, with the units in g/cm or cm3

6. **Repetition/Replication:** Repetition is to repeat the steps in a single experiment multiple times. Replication is to copy someone else’s experiment following their procedures.

7. **Data Table/Graph**: Data table is a neat, lined, organized *table* to collect observational data. Graphs are *visual* representations of data; pie, bar and line graphs.

8. **Qualitative/Quantitative Data**: Qualitative data measures qualities, such as; color, texture, emotion, etc. Quantitative data measures quantities such as; numbers and amounts!

9. **Conclusion** : a statement that provides purpose to an experiment and makes inferences based on data.