

Cornell Notes



Topic/Objective: **Accuracy, Precision, and**

Percent Error

Name:

Class/Period: **Chemistry**

Date:

Essential Question: *How do we evaluate the reliability of a measurement?*

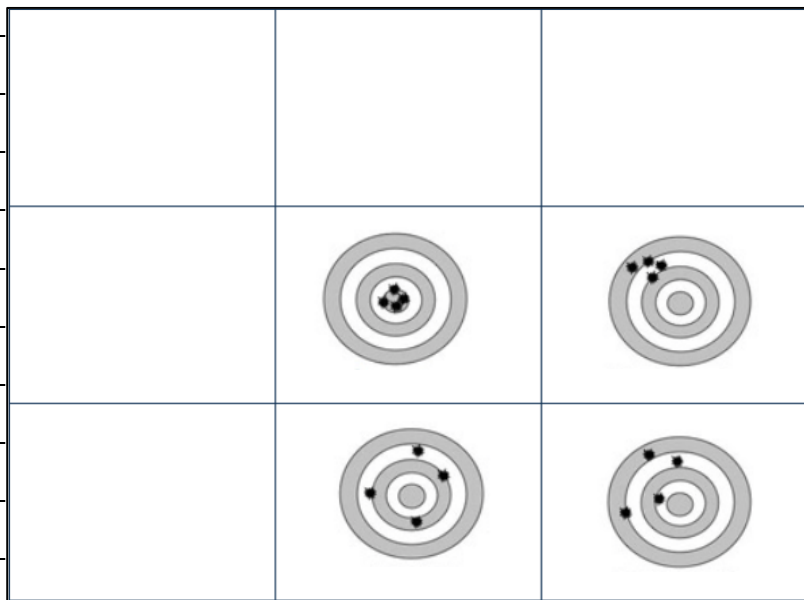
Questions:

Notes:

What is the difference between accuracy and precision?

Accuracy:

Precision:



How is the accuracy of a measurement determined mathematically?

Accepted Value:

Experimental Value:

Error:

Percent Error:

$$\text{Percent Error} = \frac{|\text{error}|}{\text{accepted value}} \times 100\%$$

Practice:

Little Johnny measured 32.71 g of sodium chloride (NaCl), but he should have had 41.00 g. What was his percent error?

What is the percent error of a calculated value being 114 g/mL and a reference book stated the value as 109.5 g/mL?

Summary:

