\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ work best when they are accurate and precise

|  |  |
| --- | --- |
| **Accuracy** | **Precision** |
| * + **http://www.mhhe.com/physsci/chemistry/chang7/esp/folder_structure/ch/m2/s2/assets/images/chm2s2_1.jpgAccuracy is a measure of how close a measurement comes to the ­­\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ value of whatever is measured**
	+ **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
	+ **Poor Accuracy results from \_\_\_\_\_\_\_\_\_\_\_or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_** | * + **Precision is a measure of how close a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of measurements are to one another**
	+ **http://www.mhhe.com/physsci/chemistry/chang7/esp/folder_structure/ch/m2/s2/assets/images/chm2s2_1.jpgdepends on more than \_\_\_\_\_\_\_\_\_ measurement**
	+ **­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
	+ **Check by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Measurements**
	+ **Results from \_\_\_\_\_\_\_\_\_\_\_\_\_ technique**
 |

|  |  |  |
| --- | --- | --- |
| **Accuracy and Precision** | **Target** | **Example** |
|  | img017 | The density of water is 1.0g/ml.You experimental values were:\_\_\_\_\_\_ g/ml, \_\_\_\_\_\_ g/ml, \_\_\_\_\_\_ g/ml, \_\_\_\_\_\_ g/ml, \_\_\_\_\_\_ g/ml  |
|  | img017 | The density of water is 1.0 g/ml.Your experimental values were:­­­­\_\_\_\_\_\_ g/ml, 0.80 g/ml, \_\_\_\_\_\_ g/ml, 0.88 g/ml, \_\_\_\_\_\_ g/ml  |

|  |  |  |
| --- | --- | --- |
|  | img017 | The Atomic mass of Carbon is 12.01 amu’s Your experimental values were 11.95 amu’s 12.01 amu’s 11.97 amu’s 11.98 amu’s 12.03 amu’s  |
|  | img017 | The Atomic mass of Carbon is 12.01 amu’s Your experimental values were 11.95 amu’s 11.30 amu’s 10.91 amu’s 11.09 amu’s 12. 53 amu’s  |

**Summary**:

|  |  |
| --- | --- |
| The electronegativity of Fluorine is 3.8. The experimental values were:2.11.63.52.84.2  | 45bullseye |

Use this example.

1. What kind of example of Accuracy and Precision is this. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Draw the arrows in the Target demonstrating this relationship.