

## Qualitative and Quantitative Observations

Name: \_\_\_\_\_

**Qualitative Observations:** From the root word QUALITY, these observations are descriptive statements made using the five senses (touch, taste, smell, hear, see).

Examples:

- The beaker was hot to touch.
- The reaction gave off a smell much like rotten eggs.
- A yellow solid formed when the two liquids were mixed.

**Quantitative Observations:** From the root word QUANTITY, these observations are measurable and generally include description using numbers.

Examples:

- The boy is 153 cm tall.
- The mass of the rock was 34 g.
- 250 mL of gas was produced.

## Lab Activity: Making Qualitative and Quantitative Observations

### Materials Required:

- |                           |               |
|---------------------------|---------------|
| • Pan balance             | • Pencil      |
| • Thermometer             | • Thumb Tack  |
| • 250 mL beaker           | • Nail        |
| • Ruler/Measuring Tape    | • Hockey Puck |
| • Cup of water (unmarked) | • Balloon     |
|                           | •             |

Using the provided materials in addition to the five senses, make three qualitative and three quantitative observations for each of the items listed in the chart on the reverse side of this sheet.

**\*\*Remember to be accurate with your description and to include units with any measurement.**

<b>Item</b>	<b>Qualitative Observations</b>	<b>Quantitative Observations</b>
<b>Tack</b>		
<b>Pencil</b>		
<b>Water</b>		
<b>Balloon</b>		
<b>Nail</b>		
<b>Puck</b>		