Chemistry Essentials
Unit 1
Test Review

Name: __ANSWERS__________________________ Per.: _______ Date: __________

**Fill In The Blank:** Write the word or phrase that best completes each sentence.

1) *Measurement* is another term for quantitative observations.
2) Noticing that a grape is green is a (n) *qualitative* observation.
3) CFC’s are responsible for the hole in the ozone layer is an __inference__. 
4) Stating that the mass of an object is 2.3 g is a (n) *quantitative* observation.
5) *Macroscopic* observations are ones that can be made with the unaided eye.
6) If you are observing the cells in a leaf, you are making a (n) *microscopic* observation.
7) Stating that Fred likes apples is a (n) *inference*.
8) The first row in a table is the ___header row___.
9) Two resources available to help you learn chemistry are the text book (packet) and class work_________________. Other answers possible
10) Chemistry involves making predictions about the *macroscopic* world by using models based in the *microscopic* world.
11) The three steps in the scientific method are _state the problem (question), propose a solution_, and _devise and perform an experiment to test your solution_.
12) Chemistry is often called a central science because *most phenomenon involve chemical changes*.
13) An area where chemistry is involved in the real world is ___answers vary___.
14) One way to get better at solving problems is to _practice_.
15) The observations made during an experiment are put in the _data_ section of a lab report.

**Identification:** Identify each of the following as a quantitative observation or a qualitative observation.

16) The model’s waist size is 24 inches. *quantitative__
17) Gene has green eyes. _qualitative____________________
18) Cindy has 600 songs on her IPod. *quantitative__
19) Last winter it snowed 110 inches. *quantitative________________
20) The long board has red and blue stripes on it. _qualitative_____

OVER
Identify each of the following as an observation or an inference.

21) There are six apples in the bowl. **observation**
22) It is cold outside, so it must be winter. **inference**
23) The tree is 25 feet tall. **observation**
24) The tree is an elm tree. **inference**
25) The flowers on the plant are yellow. **observation**

**Matching:** Choose the phrase in Column B that best matches the word in Column A.

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>26) Chemistry</td>
<td>A) What can be observed with the unaided eye.</td>
</tr>
<tr>
<td>27) Scientific Method</td>
<td>B) Cannot be observed with the unaided eye</td>
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<tr>
<td>28) Theory</td>
<td>C) The science of materials and the changes that these materials undergo</td>
</tr>
<tr>
<td>29) Natural Law</td>
<td>D) A quantitative observation</td>
</tr>
<tr>
<td>30) Measurement</td>
<td>E) Systematic process for studying nature that involves observations,</td>
</tr>
<tr>
<td>31) Macroscopic</td>
<td>F) Statement that summarizes generally observed behavior</td>
</tr>
<tr>
<td>32) Microscopic</td>
<td>G) A possible explanation of why nature behaves in a certain way</td>
</tr>
</tbody>
</table>

**Short Answer:** Answer the following in complete sentences.

33. Why is the study of chemistry important for your future (not just in this class?)
   *Answers vary. Think about your future career or hobbies, etc.*

34. Why do scientists write lab reports?
   *Scientists write lab reports to communicate their ideas to others, and to keep a record of their work.*