PS L2 Syllabus Review

Name:________________________

1. What is the name of this course?

2. What is the name of your teacher?

3. List three of your five required daily materials:
   •
   •
   •

4. Identify and describe one of this course’s ethics:
   •

PS L2 Syllabus Review

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PS L4 Do Now!  
Name:____________________

Identify 4 items or concepts that you missed on the Ch. 02 Pre-Test:

•

•

•

•

L4 Do Now!  
Name:____________________

Identify 4 items or concepts that you missed on the Ch. 02 Pre-Test:

•

•

•

•
1. Define matter:

2. Define chemistry:

3. Define pure substance:

4. A substance that cannot be broken down into simpler substances by ordinary chemical means is a(n) ________________.

5. The smallest unit of an element that keeps the element’s chemical properties is a(n) ________________.

6. The smallest unit of a substance that behaves like the substance is a(n) ________________.

7. Which seven (7) elements exist as diatomic molecules?
   _______________  _______________  _______________
   _______________  _______________  _______________
   _______________  _______________  _______________

8. Which elements exist as a tetratomic molecule? ________________

9. Which elements exist as an octatomic molecule? ________________

10. What is the symbol for:
   a. Hydrogen  ______
   b. Helium     ______
   c. Lithium    ______
   d. Beryllium  ______
   e. Boron      ______
   f. Carbon     ______
   g. Nitrogen   ______
   h. Oxygen     ______
   i. Fluorine   ______
   j. Neon       ______
PS L6 DO NOW!  

Name:________________________

Write down the names and symbols of the elements on Elements Quiz 1 – 10.
1. A substance that is made from two or more chemically combined elements is a(n) _____________.

2. APPLICATION: Identify the following as an element (E) or compound (C).
   a. _____ He
   b. _____ H₂O
   c. _____ CO
   d. _____ Na
   e. _____ CH₄
   f. _____ CO₂
   g. _____ Sn
   h. _____ Cl₂

3. The properties of a compound is (similar to / different than) the properties of the elements that they are made from.

4. A combination of substances that are not chemically combined is a(n) _____________.

5. When a substance is “able to be mixed”, it is _____________.

6. When the components are evenly distributed in a mixture, it is a(n) _____________.

7. When the mixture is different throughout, it is a(n) _____________.

8. When the substances are not evenly distributed in a mixture, it is a(n) _____________.

9. When the mixture is the same throughout, it is a(n) _____________.

10. APPLICATION: Identify the following as a homogeneous (HOM) or a heterogeneous (HET) mixture.
    a. _____ Apple juice
    b. _____ Italian Salad Dressing
    c. _____ The ocean
    d. _____ Atmosphere
    e. _____ Coca-Cola
    f. _____ The Earth
    g. _____ Ground Cinnamon
    h. _____ Cardamom Seed
11. Complete the following chart:

<table>
<thead>
<tr>
<th>Combination</th>
<th>COMPOUND</th>
<th>MIXTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Properties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Composition</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PS L8 DO NOW!  
Name: __________________

Review of Previous Material

12. Define chemistry:

13. The smallest unit of an element that keeps the element’s chemical properties is a(n) ________________.

14. Define pure substance:

15. A substance that cannot be broken down into simpler substances by ordinary chemical means is a(n) ________________.

16. Define matter:

17. The smallest unit of a substance that behaves like the substance is a(n) ________________.

18. Which seven (7) elements exist as diatomic molecules?

   ____________   ____________   ____________
   ____________   ____________   ____________
   ____________

19. Which element exists as a tetratomic molecule? ________________

20. Which element exists as an octatomic molecule? ________________
Using the *words listed on the Section 2.1 Spider Web Concept Map, rearrange and connect the words using arrows and true statements. For example:

*Feel free to add your own words
PS L10 DO NOW!  

Name:________________________

Using the following words pairs, write a **true** statement.

1. Chemistry + Matter:

2. Pure Substance + Composition:

3. Element + Atom:

4. Compound + Elements:

5. Mixture + Properties:

Fill in the symbols for the first 30 elements:
PS L11 DO NOW! Name:________________________

Complete Section 2.1 Review on Page 50.
PS L12 DO NOW! Name:________________________

Define physical property:

List some examples of physical properties:

Physical properties can help ________________ substances, can be _______________ and ________________, and help determine ______________.  

Pick any (non-human) object in the room, name it, and provide 5 different physical properties.

Object:

5 Physical Properties:
PS L13 DO NOW!  

Name:________________________

Identify each substance as a pure substance (PS) or mixture (MIX), and then identify each as an element (E), compound (C), homogeneous mixture (HOM), or heterogeneous mixture (HET).

<table>
<thead>
<tr>
<th>Identity of Substance</th>
<th>Pure Substance (PS) or Mixture? (MIX)</th>
<th>Element (E), Compound (C), Homogeneous Mixture (HOM), or Heterogeneous Mixture (HET)?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Nitrogen Gas (N₂)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Deer Park Water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Red Delicious Apple</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. 24K (Pure) Gold (Au)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. A&amp;W® Root Beer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Chocolate Chip Cookie</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Heinz® Ketchup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Hydrogen Peroxide (H₂O₂)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Sodium Hydroxide (NaOH)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Apple iPhone®</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fill in the symbols for the first 48 elements in their correct location:
PS L14 DO NOW!  

Complete Section 2.2 Review on Page 58: 1 – 6. (Graded as HW)
PS L15 DO NOW! Name:____________________

Complete Section 2.3 Review on Page 64. (Graded as HW)
PS L16 DO NOW!  

Complete Chapter 2 Review on Page 70: 1-14
PS L17 DO NOW!  

Complete the Chapter 2 Test  

Name:________________________