

Name: _____

1. Print this homework sheet.

- Record your work and answers for the below problems in the spaces provided.
- Write out the textbook problem solutions on additional pages (see the last problem on page 4).
- Always put your name on all pages.
- Staple or bind this print-out and the textbook problems into a single packet.
- Submit it in at the beginning of the second class, 2/6/2016.

2. Read the syllabus. When is the first quiz for Chem30A?

3. Which states of matter have molecules/particles that are physically touching each other?

4. Describe the following as an element, a compound, a homogenous mixture, or a heterogeneous mixture:

a) a pure silver ring _____

b) pure water _____

c) sugar water _____

d) pure magnesium oxide (MgO) _____

e) air, containing O₂ and N₂ _____

f) soil _____

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5. Provide names for the following elements. Spelling counts!

Mg _____

K _____

Br _____

I _____

Ag _____

Au _____

Hg _____

Pb _____

Cd _____

Sn _____

F _____

Fe _____

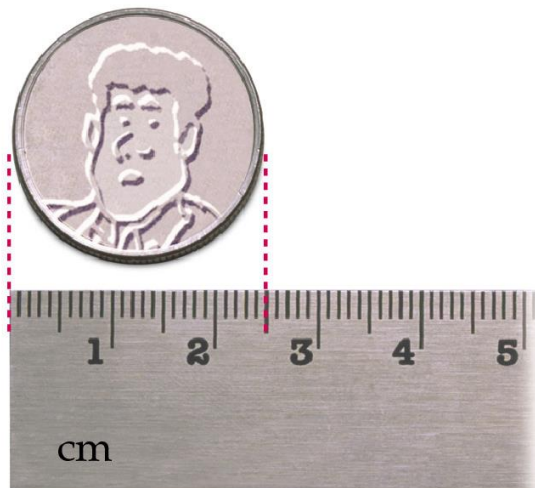
6. List 2 diatomic elements. Give the name and formula for each.

7. List 3 properties of metals, and 3 properties of nonmetals.

8. What is the difference between a chemical and physical change? Is an egg cooking a physical or chemical change? Explain in 1-3 sentences.

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9. Provide a measurement for the coin (below figure) with the correct number of significant figures.



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10. Count the significant figures, and covert to scientific notation.

	<u># sig figs</u>	<u>scientific notation</u>
892	_____	_____
892,000	_____	_____
0.00892	_____	_____
0.100	_____	_____
0.00100	_____	_____
100.000	_____	_____
8008.0	_____	_____

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11. Complete the following problems from the McMurry 7th Ed textbook on separate 8 ½ x 11" paper, and attach your solutions behind this completed printout. Put your name on all pages.

You can check most of these answers in McMurry Appendix A-13. For other problems such as 1.51, try searching the internet.

1.30 - metal, nonmetal, metalloid

1.32 – measurement (sig figs)

1.34 – measure in centimeters only, please

1.35 – measurement (sig figs)

1.38 – physical or chemical change?

1.44 – mixture or pure?

1.46 – a reaction

1.51 – element names and symbols

1.56 – chemical formula

1.64 – scientific notation

1.66 – counting significant figures