

## Pre-AP Chemistry Semester 1 Review Guide 2012-13

**Extra credit** on exam (10 points) will be given for **handwriting** or **hand printing** (legibly) the answers to this review guide on a separate piece of paper in **complete sentences**. You must **show work** on math related questions. You must **number** the responses. Example for #1: **incorrect response**, "it has mass and takes up space"; **correct response**, "matter is anything that has mass and takes up space". Responses are **due** by **Tuesday, January 15** at the **beginning of class** for full credit.

Useful equations and constants:

$$c = \lambda \nu$$

$$D = \frac{M}{V}$$

$$h = 6.63 \times 10^{-34} \text{ J} \cdot \text{s}$$

$$E = h \nu$$

$$c = 3 \times 10^8 \frac{\text{m}}{\text{s}}$$

Some equations will be provided on the exam. Bring a calculator. There will be **no** sharing of calculators during the exam. You may need a calculator for about 6-8 questions (multiple choice and problem)

**Tentative Format.** You will be notified of any changes as we get closer.

Multiple choice questions:	124	1 point each
Short Answer: (polyatomic ions):	15	1 point each
Problems:	3	2 points each
Total points:	145	(20% of semester grade)

### Chapter 1 Matter and Change (21 questions)

1. What is matter?
2. What are physical properties?
3. What are chemical properties?
4. Vertical columns in the periodic table are called what? What can you say about elements in a vertical column?
5. Horizontal rows in the periodic table are called:
6. Which group of elements is very unreactive?
7. What is the difference between an intensive and extensive physical property?
8. What is an atom?
9. Describe the four states of matter
10. Describe how particles behave in solids, liquids, and gases.
11. How can you tell if a physical or chemical change has occurred?
12. Which of the following can be separated by physical means: elements, compounds, mixtures, or pure substances?
13. What is mass?
14. What is a compound?
15. What is a pure substance? What are the two kinds of pure substances?
16. What is a mixture?
17. The distinct parts of a mixture are called what?
18. What is the difference between a homogeneous and heterogeneous mixture?
19. What is another name for a homogeneous mixture?
20. What is the difference between a reactant and a product?
21. What happens to energy when a substance changes state?
22. How are metals and nonmetals different?

# Ap Chemistry Semester 1 Exam Review 2012 13

**Camilla Rothe**



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