

AP Chemistry Chapter 1-4 Test Review

1. What are the symbols for the elements: lead, silver, gold, potassium, mercury, iron, and sodium.
2. What are the SI units for: mass, length, volume, energy, time?
3. The density of aluminum is 2.7 g/cm^3 . A piece of aluminum that occupies a volume of 21.4 cm^3 would have a mass of?
4. The number 1.00430 has _____ significant figures.
A) 2 B) 3 C) 5 D) 6 E) 4
5. Identify the following as a chemical reaction or physical change:
A) Composting of grass
B) Evaporation of water
C) Rusting of a nail
D) Combustion of methane
E) Cutting paper
6. Identify which of the following are intensive physical properties and which are extensive:
A) Volume B) Mass C) Density D) Melting Point E) Color
7. What does the atomic number and atomic mass tell about the atom?
8. How do isotopes differ? Write the shorthand notation for two isotopes of an element.
9. Which elements are metals, which are metalloids and which are nonmetals?
10. What happens when a metal reacts with a nonmetal? What about a nonmetal and non metal?
11. What is the empirical formula for $\text{C}_4\text{H}_8\text{O}_2$?
12. What are the typical oxidation numbers for each family?
13. Write the formula for Aluminum reacting with Oxygen.
14. Name the following substances: HI , CO_2 , MgCO_3 , H_3PO_4 , SF_6 , MnO
15. What are the major contributions of the following scientists to the atomic theory: Dalton, Thompson, Rutherford, Goldstein, Millikan, and Chadwick
16. How many electrons, neutrons and protons does ^{14}C have?
17. What is the smallest particle of an atom?

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