

CHEM 1411 – General Chemistry I
Practice Problems, Chapters 1–3

Chapter 1 – Chemistry: The Study of Change

- 1.** Element, compound, homogeneous mixture (solution), or heterogeneous mixture:
- | | | |
|---------------------------------------|-----------------------|---|
| a) orange juice
(freshly-squeezed) | b) brass | c) 0.9% saline (NaCl) solution |
| d) garden soil | e) room air | f) methane gas |
| g) sodium metal | h) N ₂ gas | i) Cu(NO ₃) ₂ crystals |
- 2.** Define (some of these terms are found in Chapters 2 and 3):
- | | |
|-------------------------|--------------------------------|
| a) element | b) compound |
| c) solution | d) physical change |
| e) chemical change | f) law of conservation of mass |
| g) intensive properties | h) extensive properties |
| i) precision | j) accuracy |
| k) isotopes | l) stoichiometry |
| m) the mole | n) Avogadro's number |
| o) limiting reactant | |
- 3.** Convert
- | |
|--|
| a) 5 feet 10 inches to meters |
| b) 55 miles per hour to cm per second |
| c) 5.0 quarts to liters |
| d) 1.00 ft ² to cm ² |
| e) 32.06 amu to g |
| f) 25 g of carbon to moles of carbon |
| g) 1.00 g of gold to number of atoms of gold |
| h) 25 °F to Kelvins |
- 4.** How many significant figures are in the following numbers?
- | | | |
|-------------|--|---------------|
| a) 3.1416 | b) 6.022 × 10 ²³ atoms/mole | c) 0.000104 g |
| d) 6.0 g/mL | e) 1.00794 amu | f) 5000 mi |

4 Practice Problems Chemistry

**John Obimakinde, Samuel
Obimakinde, Ebenezer
Obimakinde, Fredrick Akinbolade**

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Kapila, S. K. Khanna, 2010-11 Comprehensive chemistry according to the new syllabus prescribed by Central Board of Secondary Education CBSE **Jacaranda Chemistry 1 VCE Units 1 and 2, learnON and Print** Neale Taylor, Angela Stubbs, Robert Stokes, 2022-11-30 Developed by expert Victorian teachers for VCE students The NEW Jacaranda Chemistry VCE series continues to deliver curriculum aligned material that caters to students of all abilities Our expert author team of practising teachers and assessors ensures 100% coverage of the new VCE Chemistry Study Design 2023 2027

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