**CHEMISTRY 2022-23 September 21, 2022**

**Today’s Agenda (Day 25)**

1. HOUSEKEEPING ITEMS

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1. Homework Check:

🡪 Lab 3.3 – Dye Separation

🡪 Lab 3.2 – Properties of Water

1. Class Activity:

🡪DAY 3: Chapter 4 PPT Review

1. **Section 4.3 – How Atoms Differ**
2. **Section 4.4 – Unstable Nuclei and Radioactive Decay**

HOMEWORK:

* READ: Chapter 4 – The Structure of the Atom
* READ: Chapter 5 – Electrons in Atoms
* COMPLETE: Chapter 5 Vocabulary
* STUDY: Chapter 4 Test

CHAPTER 5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Amplitude | atomic emission spectrum | atomic orbital | Aufbau principle | de Broglie equation | electromagnetic radiation |
| electromagnetic spectrum | electron configuration | electron-dot structure | energy sublevel | Frequency | ground state |
| Heisenberg uncertainty principle | Hund's rule | Pauli exclusion principle | photoelectric effect | Photon | Planck's constant |
| principal energy level | principal quantum number | Quantum | quantum mechanical model of the atom | quantum number | valence electron |
| wavelength |  |  |  |  |  |

CHAPTER 6

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| actinide series | alkali metal | alkaline earth metal | Electronegativity | Group | Halogen |
| inner transition metal | Ion | ionization energy | lanthanide series | Metal | Metalloid |
| noble gas | Nonmetal | octet rule | Period | periodic law | representative element |
| transition element | transition metal |  |  |  |  |

REMINDERS:

* Chapter 4 Practice Problems – Sept. 21
* TEST: **Ch 4 🡪 Sept. 22**
* Chapter 5 Vocabulary – Sept. 22
* TEST: **Ch 5 🡪 Sept. 29**
* Chapter 6 Vocabulary – Oct. 11
* QUIZ: **Ch 5 & 6 Vocabulary 🡪 Oct. 13**
* TEST: **Ch 6 🡪 Oct. 18**

 **CHEMISTRY 2022-23 PRACTICE PROBLEMS**

**CHAPTER 4 – Structure of the Atom**

**Practice Problems 4.1 –** Atomic Number



**Practice Problems 4.2 –** Use Atomic and Mass Number





**Practice Problems 4.3 –** Calculate Atomic Mass

