Unit Three: Atomic Structure & Chemical Quantities

Learning Targets	Textbook Section:
3.1) Explain how Democritus and John Dalton described atoms.	4.1
3.2) Identify instruments used to observe individual atoms.	4.1
3.3) Identify three types of subatomic particles.	4.2
3.4) Describe the structure of atoms according to the Rutherford model.	4.2
3.5) Explain what makes one element different from another.	4.3
3.6) Explain how isotopes of an element differ.	4.3
3.7) Calculate the atomic mass of an element.	4.3
3.8) Convert among the count, and mass of an element.	10.1
3.9) Explain how chemists count the number of atoms, molecules, or formula units of a substance.	10.1
3.10) Determine the molar mass of an element.	10.1
3.11) Describe how to convert the mass of a substance to the number of moles of a substance, and moles to mass.	10.2

Suggested Reading:

Chapter 4: Pages 100-119 Chapter 10: Pages 304-323

End of Chapter Practice:

Chapter 4: 35, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 61, 64, 66, 67, 69, 72

Chapter 10: 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65