

Summer homework for AP chemistry. If you need to contact me [gwood@everettsd.org](mailto:gwood@everettsd.org)

Start by going to the library and checking out the ADVANCED PLACEMENT CHEMISTRY-Brown and LeMay Text

Sign on to my moodle to find answers etc. To sign on to my moodle, go to the district site and select moodle classes under the student tab. Then select High Schools, then Cascade, then Wood-AP chemistry

At some point you will be asked to log in. Use your student number and password like you would so to use a classroom computer. The very last step (you only have to do this once) is to enroll with an enrollment key. The enrollment key is my name with no capital letters ( wood ).

Check out the different links, but most important for this summer is the links are the answers for the summer homework. The answers for chapter one are found under Topic 2 → Chapters 1 → Ch. 1 BL Answers. The answers for chapter 2, 3, and 4 are found under Topics 3, 4, and 5.

Most of this information is review, but you must be good at it as it provides the foundation for the rest of the year. There are a few new topics scattered in this review like empirical formulas. We will take time to cover these briefly in the fall before moving on.

Feel free to skim the reading where you feel you are understanding. Use the answers in the moodle to help you.

### Chapter 1 “Introduction: Matter and Measurement”- Assignments

#### **DAY 1 “The Study of Chemistry” and “Classifications of Matter”**

Read: pages 1-9

Exercises: 5, 10, 15, 20 (starting on page 30)

#### **DAY 2 “Properties of Matter” and “Units of Measurement”**

Read: pages 9-20

Exercises: 24, 25, 26, 27, 30

#### **DAY 3 “Uncertainty in Measurement”**

Read: pages 20-25

Exercises: 35, 37, 38, 39, 42

#### **DAY 4 “Dimensional Analysis”**

Read: pages 25-29

Exercises: 43, 45, 50, 55

### Chapter 2 “Atoms, Molecules, and Ions”- Assignments

#### **DAY 1 “The Atomic Theory of Matter” and “The Discovery of Atomic Structure”**

Read: pages 38-42

Exercises: 12, 13, 14, (Starting on page 71)

#### **DAY 2 “The Modern View of Atomic Structure” and “Atomic Weights”**

Read: pages 43-48

Exercises: 18, 19, 23, 28, 30, 32

#### **DAY 3 “The Periodic Table” and “Molecules and Molecular Compounds”**

Read: pages 49-54

Exercises: 39, 41, 45, 48

**DAY 4 “Ions and Ionic Compounds”**

Read: pages 55-60

Exercises: 50, 51, 53, 55,

**DAY 5 “Naming Inorganic Compounds” and “Some Simple Organic Compounds”**

Read: pages 60-68

Exercises: 58, 59, 62, 68, 70, 72, 75

**Chapter 3 “Stoichiometry: Calculations with Chemical Formulas and Equations”- Assignments****DAY 1 “Chemical Equations”**

Read: pages 80-84

Exercises: 1, 2, 12, 14 (a&b only)

**DAY 2 “Some Simple Patterns of Chemical Reactivity”**

Read: pages 85-88

Exercises: 16, 17, 19,

**DAY 3 “Formula Weights”**

Read: pages 88-90

Exercises: 24

**DAY 4 “Avogadro’s Number and the Mole”**

Read: pages 90-96

Exercises: 29, 34, 37 (page 113)

**DAY 5 “Empirical Formulas from Analysis”**

Read: pages 96-100

Exercises: 43, 45, (page 113-114)

**Day 6 “Quantitative Information from Balanced Equations”**

Read: pages 100-104

Exercises: 57, 61, 64 (page 114-115)

**Day 7 “Limiting Reactants”**

Read: pages 104-109

Exercises: 71, 73, 78, 80 (page 115-116)

**Chapter 4 “Aqueous Reactions and Solution Stoichiometry”- Assignments****DAY 1 “General Properties of Aqueous Solutions”**

Read: pages 122-125

Exercises: 1, 3, 9, 10, 11, 14, 15, 18 (page 158)

**DAY 2 “Precipitation Reactions”**

Read: pages 126-130

Exercises: 19, 21, 23, 24, 27 (page 158)

**DAY 3 “Acid-Base Reactions”**

Read: pages 131-137

Exercises: 31, 32, 33, 35, 36, 40, (page 159)