

Week	Date	Experiment	Reading	Selected Topics	Assignments	Deadlines – Sunday unless otherwise indicated	ALEKS
<b>Unit 1</b>							
1	Jan 9 – Jan 13	Safety	Introduction Chapter 2	Scientific Method Scientific Notation Significant Figures Prefixes Conversions	DB 1.1, 1.2 Blog 1 Laboratory Introductory Survey Introduction Quiz Safety Quiz	DB initial posting due Friday, replies Sunday	Initial Assessment - Wednesday
2	Jan 14 – Jan 20	Measurements and the Metric System	Chapter 2 Chapter 3	Conversions Density Classifying Matter Physical/Chemical Properties Physical/Chemical Changes Conservation of Mass Energy	DB 2.1 Blog 2 Laboratory Polyatomic Ion Quiz Elements Quiz DB Oral Report – Exp 1 Oral Report – Exp 1	DB initial posting due Thursday, replies Sunday DB Oral Report – Exp 1	Obj. 1 – Wednesday
3	Jan 21 – Jan 27	Physical and Chemical Properties of Substances	Chapter 3 Unit 1 Exam Chapter 4	Temperature Conversions Heat Capacity Atomic Theory Nuclear Atom Protons, Neutrons, and Electrons Periodic Table Ions Isotopes Atomic Mass	DB Oral Report – Exp 1 Replies DB 3.1, 3.2 Part 1, 3.2 Part 2 Blog 3 Laboratory Exam Polyatomic Ion Quiz Elements Quiz Oral Report – Exp 2	DB Oral Report – Exp 1 Replies due Wednesday DB 3.2 Part 1 due Tuesday DB Initial posting due Thursday, replies Sunday DB Oral Report – Exp 2	Obj. 2 – Wednesday Obj. 3 – Sunday

## Unit 2

4	Jan 28 – Feb 3	Chromatography	Chapter 9	Electromagnetic Radiation Electromagnetic Spectrum Bohr Model Orbitals	DB Oral Report – Exp 2 Replies DB 4.1 Blog 4 Laboratory Polyatomic Ion Quiz Elements Quiz Oral Report – Exp 3	DB Oral Report – replies due Wednesday DB Initial posting due Thursday, replies Sunday DB Oral Report – Exp 3	
5	Feb 4 – Feb 10	Building Molecules (no write-up)	Chapter 9 Chapter 10	Electron Configurations Periodic Trends Valence Electrons Lewis Structures Predicting Shapes	DB Oral Report – Exp 3 Replies DB 5.1 Blog 5 Laboratory Polyatomic Ion Quiz Elements Quiz	DB Oral Report – Replies due Wednesday DB Initial posting due Thursday, replies Sunday	Obj. 4 – Wednesday
6	Feb 11 – Feb 17	Half-life & Block Decay	Chapter 10 Chapter 17	Electronegativity Polarity Radioactivity Alpha, Beta, and Gamma Natural Decay & half-life Fission Fusion	DB 6.1 Blog 6 Laboratory Polyatomic Ion Quiz Elements Quiz Oral Report – Exp 5	DB Oral Report – Replies due Wednesday DB Initial posting due Thursday, replies Sunday DB Oral Report – Exp 5	Obj. 9 – Wednesday Obj. 10 – Sunday

### Unit 3

7	Feb 18 – Feb 24	Nomenclature and formula Writing (no write- up)	Unit 2 Exam Chapter 5	Chemical Formula Writing formulas Naming Acids	DB Oral Report – Exp 5 Replies DB 7.1, 7.2 Blog 7 Laboratory Exam	DB Oral Report – replies due Wednesday DB Initial posting due Thursday, replies Sunday	
8	Feb 25 – Mar 3	Writing Equations (no write-up)	Chapter 5 Chapter 18 Chapter 7 Unit 3 Exam Chapter 6	Review Nomenclature Organic Nomenclature Evidence of a Rxn Chemical Equation Balancing Equations Solubility Ppt Rxn Types of Rxns Atoms to grams	DB 8.1 Blog 8 Laboratory Exam	DB Initial posting due Thursday, replies Sunday	Obj. 11 – Tuesday Obj. 12 – Wednesday Obj. 13 – Sunday

### Unit 4

9	Mar 4 – Mar 10	Applied Stoichiometry - Airbag	Chapter 6 Chapter 8	Mass percent Empirical formulas Molecular formulas Mole-mole Mass-mass	DB Oral Report – Exp 8 DB 9.1 Blog 9 Laboratory Oral Report – Exp 8	DB Oral Report – Exp 8 due Sunday DB Initial posting due Thursday, replies due Sunday	Obj. 14 – Wednesday
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### SPRING BREAK

**Mar 11 – Mar 17**

10	Mar 18 – Mar 24	Gases	Chapter 8 Chapter 11	Limiting reactant Theoretical yield Percent yield Enthalpy KMT Pressure Boyle's Law Charles's Law	DB Oral Report – Exp 8 Replies DB 10.1 Blog 10 Laboratory Oral Report – Exp 9	DB Oral Report – replies due Wednesday DB Initial posting due Thursday, replies Sunday DB Oral Report – Exp 9	Obj. 15 – Wednesday
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### Unit 5

11	Mar 25 – Mar 31 NOTE: 28 & 29 are holidays	States – Ooblek, foamy fountain & gak-slime	Chapter 11 Unit 4 Exam Chapter 12	Ideal gas law Gas in Chemical Rxn Properties of Liquids and Solids Intermolecular Forces	DB Oral Report – Exp 9 Replies DB 11.1 Blog 11 Laboratory Exam Oral Report – Exp 10	DB Oral Report – replies due Wednesday DB Initial posting due Thursday, replies Sunday DB Oral Report – Exp 10	Obj. 16 – Wednesday
12	Apr 1 – Apr 7	Percent by Mass Of $\text{NaHCO}_3$	Chapter 12 Chapter 13	Types of Intermolecular forces Solutions Solubility and Saturation Mass Percent Molarity Dilution Solution stoichiometry	DB Oral Report – Exp 10 Replies DB 12.1 Blog 12 Laboratory Oral Report – Exp 11	DB Oral Report – replies due Wednesday DB Initial posting due Thursday, replies Sunday DB Oral Report – Exp 11	Obj. 17 – Wednesday Obj. 18 – Sunday
13	Apr 8 – Apr 14	pH, Acids & Bases	Unit 5 Exam Chapter 14	Acids Bases Arrhenius Bronsted-Lowry Neutralization Rxns Strong & Weak A/B pH and pOH Buffers	DB Oral Report – Exp 11 Replies DB 13.1 Blog 13 Laboratory Exam Oral Report – Exp 12	DB Oral Report – replies due Wednesday DB Initial posting due Thursday, replies Sunday DB Oral Report – Exp 12	Obj. 19 – Sunday

### Unit 6

14	Apr 15 – Apr 21	Kinetics	Chapter 15	Rate of Rxn Activation Energy Le Chatelier's principle Chemical equilibrium	DB Oral Report – Exp 12 Replies DB 14.1 Blog 14 Laboratory Oral Report – Exp 13	DB Oral Report – replies due Wednesday DB Initial posting due Thursday, replies Sunday DB Oral Report – Exp 13	Obj. 20 – Sunday
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15	Apr 22 – Apr 28	Redox	Chapter 16 Unit 6 Exam Review	Oxidation states Balancing redox equations Activity series Batteries Electrolysis	DB Oral Report – Exp 13 Replies DB 15.1 Blog 15 Laboratory Exam Oral Report – Exp 14	DB Oral Report – Replies due Wednesday DB Initial posting due Thursday, replies Sunday DB Oral Report – Exp 14	Obj. 21 – Sunday
<b>Review &amp; Final Exam</b>							
16	Apr 29 – May 5		Review		DB Oral Report – Exp 14 Replies DB 16.1 Blog 16	DB Oral Report – replies due Wednesday	
	May 6 – May 9		Final Exam		DB Blog 17 Final	Due Thursday	