

Chemistry 101

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Hello and welcome to Chemistry 101! We will work our way through the Periodic Table and general chemistry this year. Students should expect to work independently throughout the week and be prepared to participate in class.

The requirements for each segment are listed in the Course Accreditation Program. This is a PDF on Disk 4 or a printed version can be ordered from the company. There are 19 segments that will carry us through the co-op school year. The syllabus details which segment will be covered during which co-op week.

During the week, students should watch the DVD, take notes, do any assigned research or written work, and take quizzes. During co-op class, we will perform experiments, discuss course content and questions, share research projects, and review previous material. Students are expected to fully participate. If a student chooses to not participate, they may be moved to study hall for the remainder of the co-op year.

If you or your student has any questions, please let me know. I am always available!

Trimester 1

Week 1: Segment 1 - Questions, Distilling lab

Week 2: Segment 1 - Expanding Gas lab; Segment 2 - Questions

Week 3: Segment 2 - Candle labs

Week 4: Segment 3 - Questions, Electrolysis lab

Week 5: Segment 4 - Questions, Discuss x-rays

Week 6: Segment 4 - Share reports on phosphorescence and fluorescence,
Discuss radium girls

Week 7: Segment 5 - Questions, Indirect Science lab

Week 8: Segment 6 - Questions, Discuss research on radiation, Anzac Day, and RATE
Group

Week 9: Review Day

****Challenge for over Christmas Break: Memorize the Periodic Table! YouTube has several songs that can help. There will be a prize for anyone who succeeds!**

Trimester 2

Week 1: Segment 7 - Questions, Discuss Hindenburg, Show Periodic Tables

Week 2: Segment 8 - Questions, Discuss Gearing Mechanisms

Week 3: Segment 9 - Questions, Water Bending lab, Ionize Triboelectric lab

Week 4: Segment 10 - Questions, Mentos lab *Bring jar for next week's lab

Week 5: Segment 10 - Discuss water, Mini Lava Lamp lab

Week 6: Segment 11 - Mineral Quiz, Present element research *Possible field trip to
gem/mineral store

Week 7: Segment 12 - Balance Equations

Week 8: Segment 13 - Questions, Density lab

Week 9: Segment 13 - Glow stick lab, Cabbage indicator lab

Trimester 3

Week 1: Segment 14 - Questions, Campaign for "Best Family" *Possible field trip to waste water treatment plant

Week 2: Segment 15 - Questions, Heat Dissipation lab, possibly Dry Ice lab

Week 3: Segment 16 - Questions, Discuss research, Lemon Battery lab

Week 4: Segment 17 - Questions, Misch Metal Fire (in parking lot), Discuss research

Week 5: Segment 18 - Questions, Discuss different way to make electricity *Possible field trip to power plant

Week 6: Segment 19 - Questions, Discuss Green Party, Green Movement and Christianity, God and Scientists

Week 7: Segment 19 - Shear Thickening Fluid lab, Liquid Steel lab

Week 8: Element Review

Week 9: Review with Food!