

Possible Time Guideline for Chemistry 20

5 days	Review Science 10 ... Sort out the weak spots in the student's background. Refresh their memory of all those basics before you begin. Nomenclature is vital and an understanding of basic reactions and moles.
1 day	Unit exam to review Science 10
1 day	Review Lab safety and do the washing glassware lab to familiarize students with the things they will need for this course. Chemistry 20 should be taught as a lab course to provide the skills necessary for success in chemistry 30.
12 days	Bonding: Be sure to spend adequate time doing 3-d labs so that the students get a firm understanding of the theory of bonding. It will be very helpful in chemistry 30 ... especially the Organic section
1 day	Unit exam for bonding
10 days	Gas Laws: This section does not follow into Chemistry 30 ... but the students need time to get a firm grasp of the concepts. Have them do the Universal Gas Constant Lab.
1 day	Unit exam on Gas laws. Test cumulatively so that students do not forget the previous concepts
22 days	Quantitative Relationships. This is the meat of the course for those going on to Chemistry 30. Be sure to include many labs: 5 day copper lab, use of pipettes, use of burettes, filtering, etc. Students must be comfortable with simple stoichiometry and limiting reagent stoichiometry
1 day	Unit exam on Quantitative Relationships. Test cumulatively so that students do not forget the previous concepts.
24 days	Solutions, Acids and Bases. Again lab work is critical. Teach students to make and dilute a solution. Introduce them to indicators, have them do titrations. It will be assumed in chemistry 30 that they know and understand the relationships between pH, pOH, $[H^+]$, $[OH^-]$.
1 day	Unit exam on Solutions. Test cumulatively so that students do not forget the previous concepts.
5 + days	<u>Review</u>

84+ days → This will not necessarily add to the number of teaching days you have in your jurisdiction.

- There may be Professional development, bad weather days, etc that play into your timeline
- Feel free to add or subtract days as is needed depending on the skill of your class.