Atomic/Electronic Structure
Flipped Schedule

Objective: This process is to help you become an active learner.

- Can you get answers to your questions?
- Can you identify when you have an issue, and do you have ways to fix these issues.
- Investigate Schweitzer's resources and become familiar with and be able to use these resources.
- Find new resources.

Overview: You will be taking a quiz on atomic structure or Standard #2 via flipped schedule. We will be then taking returning to normal class lectures for #3-bonding. Following these two standards we will have a summative exam which will provide a score on both #2 and #3.

Schedule:

- **<u>Content video watched during class is discouraged. Use this time to work on workbook problems. If you have issues at this point I can help you answer them.</u>**

Day 1: Atomic structure: How does an atom acquire mass and charge. #2-1

Complete AS1-AS3

Day 2: Modeling atoms: #2-2

Complete: AS4- AS8

Day 3: Modeling atoms

Day 4: Atomic Trends: #2-3 atomic radius/ ionization energy
Complete: AS9-AS10

- Although there is only one worksheet here this section is very important.

Day 5: Spectroscopy: Investigating the atom.

- Topics include but are not limited to PES and Flame test.
- Complete AS11-AS14

Day 6: Quiz

- Work day for preliminary quiz and to finish up anything else.
- Complete and check answers for AS15-AS16

Day 7: Quiz. This quiz is retakable, but retakes are not easy and a 3 is required to retake exam.

Note: Pages AS17- AS20 are in preparation for upcoming test after bonding. They can be done at any time. They are critical to being prepared for the assessment and avoiding reassessment. ***<u>The answers are provided, you will likely not get any time in class to work on these. It is critical that you take these problems seriously. Set and hold yourself to a standard.</u>***


Atomic structure Video


Modeling atoms


e-config video


orbital video


Atomic radius


ionization energy


PES


Investigating the atom