[Chapters 1-3 Practice Test](https://youtu.be/ZGCUCwO4RGw?si=3mWu164hOPa5XGkk)

[Chapter 4 Reactions in Aqueous Solutions (Sections 4.1-4.4)](https://youtu.be/HEmhW3UGoDE?si=KBwvx7Y1VEZK6czQ)

[Chapter 4 Reactions in Aqueous Solutions (Sections 4.5-4.6)](https://youtu.be/JI777TZ5auY?si=krGyM2hBFiYIM46N)

[Chapter 5 Thermochemistry (Sections 5.1-5.4)](https://youtu.be/3LBkIH8pSPs?si=6iMNjHxdmAvdM4C6)

[Chapter 5 Thermochemistry (Sections 5.5-5.7)](https://youtu.be/UivPFH-sYn8?si=padKqTyNbNmKAUDu)

[Chapter 6 Electronic Structure of Atoms](https://youtu.be/3zY1lSApWKU?si=UmE4ZdyA8ML0jY48)

* [X-Ray Photoelectron Spectroscopy](https://youtu.be/FBch3luY-ow?si=6hfoTYNmyxp4EWZl)
* [Photoelectron Spectroscopy Explanation](https://www.youtube.com/watch?v=7ycCk9TKpBE&list=PLmtMZsGcmFltpwSFM7mSS_oTaIrS71sH2&index=10)

[Chapter 7 Periodic Properties of Elements](https://youtu.be/G6aEaDQq9Sk?si=9rUu0IuPEwHNzo9-)

[Chapter 8 Basic Concepts of Chemical Bonding](https://youtu.be/YJHtMCB1ktw?si=yAzVZnQfw5Ymtu5K)

[Chapter 9 Molecular Geometry and Bonding Theories](https://youtu.be/YJHtMCB1ktw?si=yAzVZnQfw5Ymtu5K)

[Chapter 10 Gases](https://youtu.be/R2SzxyJ7z38?si=oF5jNlAfcPuA1mI8)

[Chapter 11 Liquids and Intermolecular Forces](https://youtu.be/MscP7ZKLgRc?si=oeafSwmYzv_9j3TK)

[Chapter 12 Solids and Modern Materials](https://youtu.be/GHxDJ6KD0bw?si=m72_s58HWisjvUHO)

[Chapter 13 Properties of Solutions](https://youtu.be/UeaUC0Wf5QQ?si=GZU5ZcOSK5D3s32m)

[Chapter 14 Chemical Kinetics](https://youtu.be/BZbosYt49VI?si=BpYE7Sk-T1xJEjQ3)

[Chapter 15 Chemical Equilibrium](https://youtu.be/X2RajOXUkQs?si=RnIzn38XdASxuCd-)

[Chapter 16 Acid-Base Equilibria](https://youtu.be/Owj5phh4DmY?si=ojlXNZfqpRyUCaG-)

[Chapter 17 Additional Aspects of Aqueous Equilibria](https://youtu.be/MLDEFV3UJn4?si=P7trCnL4Ot179Uhk)

[Particle Diagrams for Acid-Base Titrations](https://youtu.be/axI7lmW9m7Y?si=u_YusMmSUvN8xu1y)

[Chapter 19 Chemical Thermodynamics](https://youtu.be/VLr4O2z6244?si=w2W5LSXHycz7tvuj)

[Chapter 20 Electrochemistry](https://youtu.be/hb9d2bCPMUw?si=juj7APAfa1fKwpZu)