



MALDEN CATHOLIC

Leading Beyond

Summer Assignment – AP Biology

(Chapter 1-4, 9)

Introduction to AP Biology

- [The APsolute RecAP: Biology Edition - AP® Overview and Exam Structure](#)
- [The APsolute RecAP: Biology Edition - Big Ideas and Science Practices](#)
- [The APsolute RecAP: Biology Edition - Units and Exclusions](#)

Statistics Review

- [Statistics PowerPoint](#)

Unit 1: Chemistry of Life (Chapter 2 and 3 in Textbook)

- Powerpoints (3)
 - [Elements of Life \(Chapter 2\)](#)
 - [Structure of Water and Hydrogen Bonding \(Chapter 2\)](#)
 - [Biological Macromolecules \(Chapter 3\)](#)
- Worksheets (4) *Assignments*
 - [Monomers, Polymers, Macromolecules](#)
 - [Carbohydrates](#)
 - [Nucleic Acids](#)
 - [Proteins](#)
- Case Studies *Assignments*
 - [Case Study: Cellulose](#)
- Video/Audio Reviews for Unit 1
 - [Biology in Focus Chapter 2: The Chemical Context of Life](#)
 - [Biology in Focus Chapter 3: Carbon and the Molecular Diversity of Life](#)
 - [The APsolute RecAP: Biology Edition - Water Chemistry](#)
 - [The APsolute RecAP: Biology Edition - Biological Molecules](#)
 - [The APsolute RecAP: Biology Edition - Elements of Life](#)
 - [Biological Molecules](#)
 - [Water: A Polar Molecule](#)

Unit 2: Cell Structure and Function (Chapter 4 in Textbook)

- PowerPoints (2)
 - [Cell Structure and Function](#)
 - [Cell Size](#)
- Worksheets (1) *Assignments*
 - [Cell Structures and Organelles](#)
- Case Studies *Assignments*
 - [Case Study: Little Girl Lost](#)
- Video/Audio Reviews for Chapter 4
 - [Biology in Focus Chapter 4: A Tour of the Cell Notes](#)
 - [The APsolute Recap: Biology Edition - Cell Structure and Function](#)
 - [The APsolute Recap: Biology Edition - Surface Area to Volume Ratio](#)
 - [Cellular Organelles](#)
 - [Surface Area to Volume Ratio](#)

Unit 5: Cell Communication and Cell Cycle (Chapter 9 in Textbook)

- Powerpoints (1)
 - [Cell Cycle](#)
- Worksheets (1) *Assignments*
 - [Cell Cycle and Checkpoints](#)
- Case Studies *Assignments*
 - [Case Study: Know Your Enemy, Know Yourself](#)
- Video/Audio Reviews for Chapter 9
 - [Biology in Focus Chapter 9: The Cell Cycle](#)
 - [The APsolute Recap: Biology Edition - Cell Cycle and Regulation](#)
 - [Cell Cycle, Mitosis and Meiosis](#) (meiosis will be presented during academic year)
- Activity *Assignments*
 - [Mitosis Escape Room clues](#)
 - [Escape Room Google Form](#)