

**Biology Syllabus  
Parshall High School**

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**Course Description:**

This course focus on the of study life and its interaction with the non-living world. This course allows students to explore the different branches of Biology and give them a better understanding of subject. The course will explore both microscopic and macroscopic realms of biology as well as the passing of traits one generation to the next. The subject will also dive into the different biomes and will explore the relationship between biotic and abiotic factors. This course will also include laboratory experiments that will better the understanding of the students.

**Time Frame**

**Semester 1, August 18, 2021- December 17, 2021- Chapter 1-22**

**Semester 2, January 3, 2022- May 20,2022 - Chapter 23-44**

**UNITS AND CHAPTERS**

<p><b>Unit 1: Principles of Cellular Life</b> <b>CHAPTERS</b> 2. Life's Chemical Basis 3. Molecules of Life 4. Cell Structure 5. Ground Rules of Metabolism 6. Where it starts- PHOTOSYNTHESIS 7. Releasing Chemical Energy</p>	<p><b>Unit 2: Genetics</b> <b>CHAPTERS</b> 8. DNA Structure and Function 9. From DNA to Protein 10. Control of Gene Expression 11. How Cells Reproduce 12. Meiosis and Sexual Reproduction 13. Patterns in Inherited Traits 14. Human Inheritance 15. Biotechnology</p>
<p><b>Unit 3: Principles of Evolution</b> <b>CHAPTERS</b> 16. Evidence of Evolution 17. Processes of Evolution 18. Life's Origin and Early Evolution</p>	<p><b>Unit 4: Evolution and Biodiversity</b> <b>CHAPTERS</b> 19. Viruses, Bacteria, and Archaea 20. The Protists 21. Plant Evolution 22. Fungi 23. Animals I: Major Invertebrates Group 24. Animals II: The Chordates</p>
<p><b>Unit 5: How Plants Work</b> <b>CHAPTERS</b> 25. Plant Tissues 26. Plant Nutrition and Transport 27. Reproduction and Development of Flowering Plants</p>	<p><b>Unit 6: How Animals Work</b> <b>CHAPTERS</b> 28. Animal Tissues and Organ Systems 29. Neural Condition 30. Sensory Perception 31. Endocrine Control 32. Structural Support and Movement 33. Circulation</p>