

**Mansfield Independent School District  
Scope and Sequence – Biology**

<u>Term Taught</u>	<u>Topic</u>
1 <sup>st</sup> 9 Weeks	Lab Safety/Equipment
1 <sup>st</sup> 9 Weeks	Application of Scientific Method
1 <sup>st</sup> 9 Weeks	Biochemistry
1 <sup>st</sup> 9 Weeks	Cell Structure and Function
1 <sup>st</sup> 9 Weeks	Cell Membranes
1 <sup>st</sup> 9 Weeks	Cellular Respiration and Photosynthesis
2 <sup>nd</sup> 9 Weeks	Cell Growth and Reproduction
2 <sup>nd</sup> 9 Weeks	Meiosis
2 <sup>nd</sup> 9 Weeks	DNA, RNA, and DNA Technology
2 <sup>nd</sup> 9 Weeks	Protein Synthesis
2 <sup>nd</sup> 9 Weeks	Gene Mutations and Karyotypes
2 <sup>nd</sup> 9 Weeks	Bacteria and Viruses / <b>Midterm Exams</b>
3 <sup>rd</sup> 9 Weeks	Energy Cycles and Populations
3 <sup>rd</sup> 9 Weeks	Biomes
3 <sup>rd</sup> 9 Weeks	Natural Selection and Evolution
3 <sup>rd</sup> 9 Weeks	Biodiversity and Classification
3 <sup>rd</sup> 9 Weeks	Protists and Fungi
4 <sup>th</sup> 9 Weeks	Plants
4 <sup>th</sup> 9 Weeks	Animal Characteristics
4 <sup>th</sup> 9 Weeks	Human Systems/ <b>Final Exam</b>