

## **Biology - Year at a Glance**

Course # 2000310

**A Note to Parents:** State standards require your child's science teacher to plan lessons that build knowledge of various scientific concepts, develop the ability to apply these concepts, and engage students in critical thinking. To achieve these goals, students will take part in a range of activities including reading, discussions, writing, lab activities, projects, and more. Safety is paramount in science labs and your child's teacher will ensure a safe learning environment.

### **What is the purpose of this course?**

Students will explore biological concepts that include: molecular and cellular biology, classification, heredity and evolution, ecosystems. A passing grade in this course is required to satisfy state graduation requirements. Students who complete this course will take the state end of course exam which comprises 30% of their grade for the year.

### **What will students be learning?**

	<b>Topics</b>
Quarter 1	<ul style="list-style-type: none"><li>• The Nature of Science</li><li>• Organic molecules</li><li>• Properties of Water</li><li>• Cell theory, structure function of all cell types</li></ul>
Quarter 2	<ul style="list-style-type: none"><li>• DNA replication</li><li>• Protein synthesis</li><li>• Genetics</li></ul>
Quarter 3	<ul style="list-style-type: none"><li>• Natural Selection/evolution</li><li>• Classification</li><li>• Plants</li><li>• Photosynthesis/Cellular Respiration</li></ul>
Quarter 4	<ul style="list-style-type: none"><li>• Food webs</li><li>• Biogeochemical Cycles</li><li>• Renewable/nonrenewable resources</li><li>• Circulation, the brain, reproductive system</li></ul>

### **Possible Support Resources**

Amoeba Sisters for Biological Topics: <https://www.youtube.com/user/AmoebaSisters>

Student tutorials: <https://www.floridastudents.org/#29|0|0|0>

Bozeman Science videos: <http://www.bozemanscience.com/>

Schoology: the teacher's site will have assignment information.