

## Science Grade 8 - Year at a Glance

M/J Comprehensive Science 3, Course # 2002100

**A Note to Parents:** The Florida state standards require that the science teacher 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 and projects. Safety is paramount in science labs and your child's teacher will ensure a safe learning environment.

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

- The purpose of this course is to provide opportunities to study concepts of the life, earth/space, and physical sciences, and their applications to everyday life.
- This course includes additional, rigorous standards from high school science courses.

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

	<b>Topics</b>
Quarter 1	<ul style="list-style-type: none"><li>• The Nature of Sciences</li><li>• Matter</li><li>• Density, Mass and Weight</li></ul>
Quarter 2	<ul style="list-style-type: none"><li>• The Periodic Table</li><li>• Elements and Compounds</li><li>• Acids and Bases</li><li>• Physical and Chemical Changes</li></ul>
Quarter 3	<ul style="list-style-type: none"><li>• Carbon Cycle</li><li>• Photosynthesis/Cellular Respiration</li><li>• The Universe</li><li>• Stars and Solar Properties</li></ul>
Quarter 4	<ul style="list-style-type: none"><li>• The Solar System</li><li>• Seasons, Tides, Eclipses</li><li>• Technology and Space</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>

Simulations can be found at: <https://phet.colorado.edu/>

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

Videos: Study Jams- <https://studyjams.scholastic.com/studyjams/jams/science/index.htm>