

Course offerings and class schedules change each year to meet the needs of our enrolled families. We use Apologia textbooks for most of our science courses. Sample textbook chapters (modules) are available at www.Apologia.com.

Monthly Classes Students attend one day a month (September through April) to do lots of FUN science experiments together. We provide you with a reading schedule and additional engaging activities students may do at home to further explore the concepts investigated during class.



🦋 Science ABCs (For ages 6 to 8)

We have tons of fun with teacher-developed activities and experiments beginning with every letter of the alphabet! Students are introduced to many fields of science: Biology, Chemistry, Physics, Earth Sciences, etc. This class runs on a three-year cycle, with new experiments every year. A student could enjoy Science ABCs three years in a row! This class meets once a month, 9 AM - noon. (This class does not use a textbook.)

🦋 Botany (For ages 8 to 12)

Students explore the process of classifying plants, the development of plants from seeds, the reproduction processes in plants, the way plants make their food, and how plants get their water and nutrients and distribute them throughout the body of the plant. We build lighted plant huts so students can bring home plants to grow and experiment with throughout the year. This class meets once a month, 9 AM - 2 PM. Apologia textbook and associated notebooking journal for **NEW 2nd Edition** - Exploring Creation with Botany by Jeannie Fulbright



Zoology 2 – Swimming Creatures (For ages 8 to 12)

Dive into the world of marine creatures! This hands-on course explores aquatic animals, dolphins, whales, seals, fish, sharks, reptiles, octopuses, and other organisms you may never have heard about before! Each student builds their own creative “Ocean Box” and adds new creatures to it throughout the year. This class meets once a month, 9 AM - 2 PM.

Apologia textbook and notebooking journal (regular, not junior level) for: Exploring Creation with Zoology 2: Swimming Creatures by Jeannie Fulbright

This year, an exciting field trip to the ocean will be available to Great Oak Academy students! Our field trips are optional. Entire families are welcome to join us on all our field trips.

Weekly Classes Each class meets two hours per week (August through May). We perform textbook activities as well as many additional experiments and do relevant projects. Compound and dissecting microscopes, preserved specimens, chemicals, etc. are provided. Students learn to use these correctly in a fully equipped science lab environment and enjoy live animals, too!



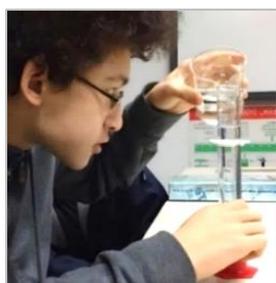
 **Chemistry and Physics** (Generally for 6th graders) This course provides an excellent transition from elementary to middle school science. Students engage in exciting hands-on activities and experiments using the scientific method. They are introduced to study skills (writing lab summaries, organizing notes, taking tests, etc.) in preparation for future classes like General Science. Apologia textbook and associated notebooking journal for: Exploring Creation with Chemistry and Physics are used.

 **General Science** (Generally for 7th graders) Students explore a wide range of topics including the history of science, the scientific method, astronomy, geology, paleontology, atoms, molecules, motion, simple machines, life science, oceanography, and ecology. This course is a step up from earlier classes, requiring a significant amount of reading. Apologia textbook, spiral student notebook, and solutions/tests manual for the **NEW 3rd Edition** (3 BOOK SET) of Exploring Creation with General Science are used.



 **Physical Science** (Generally for 8th graders, the same year as Pre-Algebra) Students learn about states of matter, atomic structure, chemical reactions, Newton's Laws of motion, energy, electricity, magnetism, light, sound, the atmosphere, the hydrosphere, weather, the structure of the earth, and conducting research. Apologia textbook, spiral student notebook, and solutions/tests manual for the **NEW 3rd Edition** (3 BOOK SET) of Exploring Creation with Physical Science are used. (1 high school credit with final grade $\geq 85\%$)

 **Biology** (Generally the same year as Algebra 1) Students explore classification, cellular biology, Mendelian genetics, dissection, and ecosystems. Long-term, extra credit projects include an insect collection, tree leaf collection, and an owl pellet skeleton reconstruction. Apologia textbook, spiral student notebook, and solutions/tests manual for the **NEW 3rd Edition** (3 BOOK SET) of Exploring Creation with Biology are used. (1 high school credit)



 **Chemistry** (Prerequisite: Completion of Algebra 1) Students learn significant figures, stoichiometry, acids and bases, atomic structure, Lewis structures, the gas laws, equilibrium, etc. Students do **not** need to buy their books. Great Oak Academy has Chemistry textbooks and solutions manuals for students to **rent**. Apologia: Exploring Creation with Chemistry, 2nd Edition is used. (**NOT 3rd Edition**) (1 high school credit)

 **Health & Nutrition** (High school level, 1-semester course available in summer, fall, or spring for ½ credit) Students cover a thorough survey of every human body system and include hands-on activities, multisensory body assessment (importance of vital signs, etc.), social, mental, emotional health education, as well as general first aid. Apologia Health & Nutrition textbook and student notebook are used.

