**ACES Science Classes**

**Past and Projected Future Offerings**

**Gr. 1 Hands-on Science** (offered each year)

Students will explore many areas of science through books, hands-on experiments and demonstrations.
The class fee is $13.50 per student (class fee subject to change)

**Grades 2-6**

General Rotation (1-5 year cycle) with more detailed class descriptions below

2011-2012 – (1) General Biology/Human Anatomy

2012-2013 – Exploring Creation With General Science

2013-2014 – (2) Chemistry for Younger Children

2014-2015 – (3) Animal Kingdom and Botany (some dissections)

2015-2016 – (4) Earth Science by Exploring Geology and Weather

2016-2017 – Physics Concepts using K’nex

2017-2018 – (1) Exploring Creation with Human Anatomy (Apologia Young Explorers Series: Exploring Creation with Human Anatomy and Physiology)

2018-2019 – (2) Chemistry and Physics (Apologia Young Explorers Series: Exploring Creation with Chemistry and Physics)

**Projected future rotation**

2019-2020 – (3) Animal Kingdom and Botany (Apologia Young Explorer Series: Exploring Creation with Botany, The World of Animals (Answers In Genesis) 4th Edition)

2020-2021 – (4) Earth Science by Exploring Geology and Weather

2021-2222 – (5) Exploring Creation with Astronomy (Apologia Young Explorers Series: Exploring Creation with Astronomy)

**Grades 7-8**

General Rotation

2017-2018 – Exploring Creation with Physical Science (Apologia Exploring Creation with Physical Science)

2018-2019 – Exploring Creation with General Science (Apologia Exploring Creation with General Science)

**Projected future rotation**

2019-2020 – Exploring Creation with Physical Science

2020-2021 – Exploring Creation with General Science

**High School Science Class Rotation**

(General two-class rotation, additional class offerings may be considered as teachers are available)

2015-2016 – Biology Lab with dissections (Abeka lab manual)

2016-2017 – Chemistry Lab via DVD (Abeka DVD series)

2017-2018 – Biology Lab with dissections

2018-2019 – Chemistry Lab via DVD

**Projected future rotation**

2019-2020 – Biology Lab with dissections

2020-2021 – Chemistry Lab via DVD

**Grades 2-6: More Detailed Class Descriptions of Past Science Classes (class fees subject to change)**

**2018-19**

Gr. 2-3 Hands on Science: Exploring Creation with Chemistry and Physics

Following Apologia Young Explorer Series Book: Exploring Creation with Chemistry and Physics
This K-6 science curriculum uses the Charlotte Mason methodology to give young students an introduction to the fascinating world of chemistry and physics. It begins by exploring the properties of matter and the basic building blocks of life – atoms and molecules. Following a study of chemistry, students are introduced to physics concepts such as the law of motion and the laws of thermodynamics.
Throughout each lesson students will gain a better understanding of the subject matter through a multitude of experiments and hands on demonstrations.
Class Fee: $12/student

Gr. 4-6 Hands-on Science: Exploring Creation with Chemistry and Physics

Following Apologia Young Explorer Series Book: Exploring Creation with Chemistry and Physics
This K-6 science curriculum uses the Charlotte Mason methodology to give young students an introduction to the fascinating world of chemistry and physics. It begins by exploring the properties of matter and the basic building blocks of life – atoms and molecules. Following a study of chemistry, students are introduced to physics concepts such as the law of motion and the laws of thermodynamics.
Throughout each lesson students will gain a better understanding of the subject matter through a multitude of experiments and hands on demonstrations.
4th-6th graders will be expected to take notes. Students will need to bring a pencil and 3-ring binder to every class.
Class Fee: $12/student

**2017-18**

Gr. 2-3 Hands-on Science : Exploring Creation with Human Anatomy

Apologia Young Explorers Series: Exploring Creation with Human Anatomy and Physiology

In this hands-on, fun-filled class we will teach our children about their five senses, the muscles and bones, and the different systems of the body. They will “build” their own body throughout the year!

Class fee: $9/student.

Gr. 4-6 Hands-on Science: Exploring Creation with Human Anatomy

Apologia Young Explorers Series: Exploring Creation with Human Anatomy and Physiology

Students will learn about the incredible human body and how it functions. In our introductory study of anatomy and physiology, we will use various activities to examine the major systems and organs, nutrition, and cell structure. Students will be expected to take notes, participate in verbal quizzing games, build models and participate in small group labs and experiments.

Class fee: $10/student.

**2016-17**

Gr. 2-8 Hands-on Science

Students will explore Physics concepts through hands-on experiments using K’nex. They will be using K’nex Education – Intro to Simple Machines: Gears, Levers and Pulleys, and Wheels, Axels and Inclined Planes.

Class fee: $23.80 per student.

**2015-16**

Gr. 1-7 Hands-on Science

Students will study Earth Science by exploring Geology and Weather with interactive demonstrations and projects.

Class fee: $10/student.

**2014-15**

Gr. 1-3 Hands-on Science

We will study Animal Biology. Students will learn about the animal kingdom through interactive demonstrations and projects.

Class fee: $9/student.

Grades 4-7 Hands-on Science

Students will learn about the animal kingdom through hands-on discovery. Students will participate in 11 animal dissections throughout the year. Each dissection will focus on the unique features of a different phylum.

Class fee: $16/student.

**2013-14**

K-Gr. 1 Hands-on Science

Students will explore the world around us. They will experiment and explore with bubbles, sound, flight, chemical reactions, measurements and other aspects of our wonderful world.

Class fee: $10/student.

Grades 2-5 Hands-on Science

Students will explore the principles of chemistry through hands-on experiments. We will create a periodic table and learn the basics of writing a lab report. Each student needs a copy of Chemistry for the Grammar Stage Student Workbook which you can purchase at [https://elementalscience.com/store/index.php?route=product/category&path=18\_71](https://elementalscience.com/store/index.php?route=product/category&path=18_71" \t "_blank)

Class fee: $10/student.

Grades 6-7 Hands-on Science

We will be using the Apologia textbook, Exploring Creation with Physical Science by Dr. Wile. The text covers topics such as the atmosphere, the hydrosphere, weather, the structure of the earth, environmentalism, physics of motion, Newton’s Laws, gravity, and astrophysics.  For the students to get the most out of the class, it is highly recommended that each student can either borrow the book or purchase one.  However, for families that do not plan to follow the curriculum at home, the teacher will provide the rough outlines for each chapter so that students can work on the hands-on labs together in the class. Please have your child bring the following to class: 3-ring binder, pencil, and safety glasses/goggles.

Class fee: $15/student.

**2012-13**

K-Gr. 3 Hands-on Science

In the fall we will explore topics of water, weather, earth, and volcanos. In the spring we will be studying outer space, the planets, and take a field trip to the Como Observatory. The class fee is $20 per student, which includes the cost of the field trip.

Grades 4-8 Hands-on Science

We will be using the Apologia textbook, Exploring Creation With General Science by Dr. Wile. Try to borrow the book from another home school family if you can. If you want to purchase the book, the book is definitely worth purchasing. However, for families that do not want to purchase it, the teacher will provide a rough outline of the chapters and questions for students to follow along

so the labs make sense.

Class fee: $18 for Gr. 4-5 and $17 for Gr. 6-8.

**2011-12**

K-Gr. 1 Hands-on Science

In this hands-on, fun-filled class we will teach our children about their five senses, the muscles and bones, and the different systems of the body.  They will "build" their own body throughout the year!  There will also be guest speakers. Class fee: $18.00/student

Grades 2-3 Hands-on Science

We will follow the same curriculum used in the K-Gr. 1 class (see above), but we will go more in depth with all materials.

Class fee: $18.00/student

Grades 4-5 Hands-on Science

We will follow a general biology curriculum and will learn about plants, insects, birds, weather, the earth, and cover general biology topics.  Activities will be hands-on with experiments.

Class fee: $20.00/student

Grades 6-7 Hands-on Science

Students will learn about the incredible human body and how it functions. In our in-depth study of anatomy and physiology, we will use various activities to examine the major systems and organs, nutrition, and cell structure. Students will need a pencil and 3-ring binder with loose-leaf paper for notes and keeping hand-outs.

Class fee: $13/student