

Homeschool Science Academy: High School Workshops



Join ScienceSouth as we present our Homeschool Science Academy for high school aged students. For the 2011-2012 school year we will offer hands-on laboratory programs in biology and chemistry for 9th-12th graders. Each track covers 10 lab sessions, and classes will meet from 9:00-11:30 am on the last Friday of every month from August 2011 to May 2012, unless there is a conflict (i.e. holiday or inclement weather). The cost is \$200 for the 10 labs or \$20 per lab.

The biology curriculum being used is the "Exploring Creation with Biology" 2nd edition from Apologia. The chemistry curriculum being used is "Exploring Creation with Chemistry" 2nd edition from Apologia. Please note that not every experiment in the textbook is covered. ScienceSouth has evaluated the experiments and determined which are most appropriate for the module being covered. In some cases experiments are not conducted, in other cases a more appropriate ScienceSouth experiment is substituted.

ScienceSouth staff will guide the students through the experiments and activities listed on the schedule. The students will be expected to come to each session having read and studied the module being covered. Prior knowledge of the material covered in the labs will aid the student in successful completion of the labs.

The labs are not graded. Students will not receive a grade for their work. If a lab grade is required, we can assign a grade based on attendance and completion of the work.

Biology Track:

LAB NO.	BRIEF DESCRIPTION	Experiment Alignment
Lab 1: August 26	Module #1 and Module #2	1.2, 2.1, 2.2
Lab 2: September 23	Module #3 and Module #4	3.2, 3.3, 4.2, 4.3
Lab 3: October 28	Module # 5, Module #6	Osmosis/Diffusion experiment, 6.1, 6.2
Lab 4: November 18	Module #7	7.1, 7.2
Lab 5: December 16	Module #8 and Module # 10	8.1, 8.2, 10.1 Watershed workshop
Lab 6: January 27	Module #11	11.1, 11.2, 11.3, 11.4
Lab 7: February 24	Module #12 and Module #13	12.1, 13.1, 13.2
Lab 8: March 23	Module #14	14.1, 14.2, 14.3
Lab 9: April 27	Module #15	15.1, 15.2
Lab 10: May 25	Module #16	16.1, 16.2
Lab 11: June 22	Make Up	Held only if a lab is cancelled

Chemistry Track:

LAB NO.	BRIEF DESCRIPTION	Experiment Alignment
Lab 1: August 26	Temperature & Conservation of Mass (Build a calorimeter)	2.1, 2.2, 3.1
Lab 2: September 23	Conductivity (meters, hydrolysis exp.)	3.2
Lab 3: October 28	Weather Show, can crush, fronts tank demo	4.2, 4.3, 4.4
Lab 4: November 18	Molecule Size & Eliminating Reactants	5.1, 6.1
Lab 5: December 16	Electrical Charge, Polar Bonds, Solubility	7.1, 7.2, 9.1, 9.2
Lab 6: January 27	Acids & Bases (titrations)	10.1, 10.2
Lab 7: February 24	Temperature & Solubility, Endo & Exothermic Reaction	11.1, 11.2, 11.3, 11.4
Lab 8: March 23	Stoichiometry, Ideal gas Law	12.1
Lab 9: April 27	Reaction Rates, Catalysts, Equilibrium	14.1, 14.2, 15.1
Lab 10: May 25	LeChatlier's Principle	15.2, 16.1
Lab 11: June 22	Make Up	Held only if a lab is cancelled

Homeschool Science Academy Registration Form

A 50% deposit is due by August 26, 2011. The remaining balance is due on December 16, 2011. Checks can be made payable to ScienceSouth. Payment can also be made via credit card at the ScienceSouth Pavilion at Freedom Florence or by calling 843-679-5353.

Student's Name: _____ **Grade:** _____ **Track:** _____ Bio _____ Chem _____

Parent's Name: _____ **Email Address:** _____

Address: _____ **City:** _____ **State:** _____ **Zip Code:** _____

Phone Number: _____ **Emergency Number:** _____

By signing this form you acknowledge that you are in agreement to the terms above. You also authorize ScienceSouth and any media authorized by ScienceSouth to take and use without payment any photographs, audio and/or video of your child as needed for public relations, social media, marketing, advertising, or internal training purposes.

Parent's Signature: _____