

## APOLOGIA GENERAL SCIENCE 30-WEEK CO-OP SCHEDULE

**The schedule:** This schedule is designed so that the student will complete the reading and On Your Own (OYO) questions in the textbook each week between co-op classes. Class time will primarily be spent doing experiments except on a few occasions. Students should do their best to keep up with the schedule of homework so they are comfortable with the lab topics. Students or parents should always check the answers to the OYO questions the student completes, and have them correct any incorrect answers. Answers to the OYO questions are found at the end of each module. Study guide answers are found in the teacher guide along with the tests. Any incorrect answers on these questions should be corrected as well. Tests will also be completed at home, but may be turned into the instructor for review – this will be noted on the syllabus or announced as it occurs. Periodically, class time will be used to review the progress the student is making with their homework assignments and to take a look at their lab notebooks.

**What to bring to each class:** Students should always bring their Apologia General Science textbook, a lab notebook, and a pencil to class. In addition, they will need to check their schedule and the supplies lists in their textbook and bring the appropriate supplies needed for that week's lab experiments, unless directed otherwise by their instructor. It is the student's responsibility to be prepared for class with these supplies! Some experiments may need to be started at home and then brought to class - these are usually noted on the schedule.

**Lab notebooks:** Lab notebooks can be any notebook of the student's choice, so long as they have enough pages for the experiments for the school year. A 3-ring binder with loose-leaf notebook paper is highly recommended. An alternative to notebook paper is to create a lab report on a word processor and print sheets for your lab manual. You may also find some ready to print on the internet. Students will write a lab summary for each experiment they do, and each one should be on a separate sheet of paper. The name and number of the experiment should be set at the top as the title of the page. A section for 'data' should be labeled. This is where the student will write down all the data that was compiled while completing the experiment. After this, a section entitled 'summary' should be made. Here the student will write a brief summary report of what was done and what he/she learned during this experiment.

__/__/__	Introduction to the class, students and instructor. Review the book format, outside assignment schedule, tests, weekly class format, supplies, students' responsibilities, etc. Begin discussing Module 1.
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**Week 1:** Read pp. 1-8 and do OYO questions p. 3 and 8.  
Read pp. 8-16 and do OYO questions p. 12 and 16.  
Read pp. 16-18 and do OYO questions p. 19.  
Read pp. 19-25 and do OYO questions pp. 23 & 25.

__/__/__	Do Experiments 1.1 and 1.2
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**Week 2:** Read pp. 25-31 and do OYO questions p. 29.  
Complete Module 1 Study Guide.  
Complete Module 1 Test.

__/__/__	Do Experiments 1.3 and 1.4 Introduce Module 2.
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**Week 3:** Read pp. 35-39 and do OYO questions p. 39.  
Read pp. 40-44 and do OYO questions p. 44  
Read pp. 45-48 and do OYO questions p. 48.

__/__/__	Do Experiments 2.1 and 2.2
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**Week 4:** Read pp. 49-55 and do OYO questions p. 55.  
Complete Module 2 Study Guide.  
Take Module 2 Test.

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\_\_\_/\_\_\_/\_\_\_ Review Module 1 and 2 Tests during Week 5. Use class time to review lab notebook set up, check student's progress on homework assignments, and assist students in any way necessary.  
Introduce Module 3.

**Week 5:** Read pp. 59-63 and do OYO questions p. 63.  
Read pp. 63-69 and do OYO questions p. 69.  
Read pp. 70-73 and do OYO questions p. 73.

\_\_\_/\_\_\_/\_\_\_ Do Experiments 3.2

**Week 6:** Read pp. 73-76 and do OYO questions p. 76.  
Complete Module 3 Study Guide.  
Take Module 3 TEST.

\_\_\_/\_\_\_/\_\_\_ Do Experiments 3.3 and 3.4  
Introduce Module 4

**Week 7:** Read pp. 83-86 and do OYO questions p. 86.  
Read pp. 86-92 and do OYO questions p. 92.  
Read pp. 93-99 and do OYO questions p. 95 and 99.  
Read pp. 99-102 and do OYO questions p. 100 and 102.

\_\_\_/\_\_\_/\_\_\_ Do Experiments 4.1 and 4.2

**Week 8:** Read pp. 102-105 and do OYO questions p. 105  
Complete Module 4 Study Guide.  
Take Module 4 TEST.

\_\_\_/\_\_\_/\_\_\_ Introduce Module 5  
Lecture or lab activities as planned by instructor - not in textbook.

**Week 9:** Read pp. 111-119 and do OYO questions p. 116 and 119.  
Read pp. 119-124 and do OYO questions p. 122 and 124.  
Read pp. 124-128 and do OYO questions p. 128.

\_\_\_/\_\_\_/\_\_\_ Instructor will check progress of homework assignments and lab notebooks.  
Lecture or lab activities as planned by instructor - not in textbook.

**Week 10:** Read pp. 128-132 and do OYO questions pp. 130 and 132.  
Do Study Guide questions for Module 5 on pp. 135-136.  
Take Module 5 TEST.

\_\_\_/\_\_\_/\_\_\_ Introduce Module 6.  
Do Experiment 6.1

**Week 11:** Read pp. 137-141 and do OYO questions pp. 138 and 142.  
Read pp. 142-149 and do OYO questions pp. 145 and 149.  
Read pp. 149-154 and do OYO questions p. 154.

\_\_\_/\_\_\_/\_\_\_ Start Experiments 6.3. (You'll need to take this home to finish and write your lab report.)  
Plan to bring your lab report on this experiment to class next week to discuss your results.

**Week 12:** Finish Experiment 6.3 and write lab report.  
Read pp. 154-156 and do OYO questions p. 156.  
Complete Module 6 Study Guide.  
Take Module 6 TEST.

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\_\_\_/\_\_\_/\_\_\_ Introduce Module 7.  
Do Experiment 7.1.

**Week 13:** Read pp. 161-165 and do OYO questions p. 163 and 165.  
Read pp. 165-170 and do OYO questions p. 167 and 170  
Read pp. 170-176 and do OYO questions p. 173 and 176.

\_\_\_/\_\_\_/\_\_\_: Instructor prepare Experiment 7.2 and bring to class for observation and discussion.

**Week 14:** Read pp. 176-183 and do OYO questions p. 179, 182, and 183.  
Complete Module 7 Study Guide.  
Take Module 7 Test.

\_\_\_/\_\_\_/\_\_\_ Introduce Module 8.  
Do Experiment 8.1

**Week 15:** Read pp. 189-195 and do OYO questions p. 195.  
Read pp. 195-200 and do OYO questions p. 197.  
Read pp. 200-206 and do OYO questions p. 202 and 206.

## *Holiday Break – No Classes Until January!*

\_\_\_/\_\_\_/\_\_\_ Lecture or lab activities as planned by instructor - not in textbook.

**Week 16:** Read pp. 206-213 and do OYO questions p. 210 and 213.  
Complete Module 8 Study Guide.  
Take Module 8 Test.

\_\_\_/\_\_\_/\_\_\_ Lecture or lab activities as planned by instructor - not in textbook.  
Introduce Module 9.  
Discuss Experiment 9.2 which you will prepare at home this coming week.

**Week 17:** Read pp. 217-224 and do OYO questions p. 219 and 225.  
Read pp. 225-231 and do OYO questions p. 229 and 231.  
Prepare Experiment 9.2 and write a lab report. Bring lab report to class next week.

\_\_\_/\_\_\_/\_\_\_ Discuss Experiment 9.2 done at home last week.  
Do Experiment 9.1

**Week 18:** Read pp. 231-238 and do OYO questions p. 235 and 238.  
Complete Module 9 Study Guide.  
Take Module 9 Test.

\_\_\_/\_\_\_/\_\_\_ Instructor will prepare Experiment 9.4 for observation and discussion in class.  
Introduce Module 10.

**Week 19:** Read pp. 243-247 and do OYO questions p. 247.  
Read pp. 247-255 and do OYO questions p. 252 and 255.  
Read pp. 255-258 and do OYO questions p. 259.

\_\_\_/\_\_\_/\_\_\_ Discuss Experiment 10.1 (Part 1) which students will set up at home this week.  
Students should prepare their lab reports and bring them to class next week.  
Do Experiment 10.2 – students will take this home and observe it for one week. Student should  
Prepare a lab report and add it to their notebook.

**Week 20:** Do Experiment 10.1 (Part 1) and prepare your summary for class next week.  
Make daily observations of Experiment 10.2 and prepare your lab report on Friday.  
Read pp.259-163 and do OYO questions p. 262 and 263.  
Complete Module 10 Study Guide.  
Take Module 10 Test.

\_\_\_/\_\_\_/\_\_\_ Discuss results of Experiment 10.1 (Part 1) that was completed at home last week.  
Discuss possible outcomes of Experiment 10.1 (Part 2)  
Instructor prepare Experiment 10.4 and bring to class for observation and discussion.  
Introduce Module 11.

**Week 21:** Read pp. 267-273 and do OYO questions p. 269 and 273.  
Do Experiment 11.1 and prepare a lab report on it. Bring your lab report to class next week.  
Read pp. 273-281 and do OYO questions p. 275 and 281.

\_\_\_/\_\_\_/\_\_\_ Bring your lab report for Experiment 11.1 to class and discuss your observations and results.  
Lab activities as planned by instructor - not in textbook.

**Week 22:** Read pp. 281-290 and do OYO questions p. 282 and 288.  
Complete Module 11 Study Guide.  
Take Module 11 Test.

\_\_\_/\_\_\_/\_\_\_ Introduce Module 12.  
Do Experiment 12.1

**Week 23:** Read pp. 295-303 and do OYO questions p. 297 and 303.  
Read pp. 303-310 and do OYO questions p. 308 and 310.  
Read pp. 311-316 and do OYO questions p. 312 and 316.

\_\_\_/\_\_\_/\_\_\_ Do Experiment 12.2

**Week 24:** Complete Module 12 Study Guide  
Take Module 12 Test.  
Make sure you are caught up on all your homework, lab reports and other assignments.

\_\_\_/\_\_\_/\_\_\_ Introduce Module 13.  
Do Experiment 13.1

**Week 25:** Read pp. 321-325 and do OYO questions p. 323 and 326.  
Read pp. 326-335 and do OYO questions p. 329 and 335.  
Read pp. 335-340 and do OYO questions p. 338 and 340.

\_\_\_/\_\_\_/\_\_\_ Do Experiment 13.2

**Week 26:** Complete the Module 13 Study Guide.  
Take the Module 13 Test.

\_\_\_/\_\_\_/\_\_\_ Introduce Module 14.  
Do Experiment 14.1

**Week 27:** Read pp. 345-354 and do OYO questions p. 348 and 354.  
Read pp. 354-359 and do OYO questions p. 356 and 359.  
Read pp. 360-365 and do OYO questions p. 363 and 365.

\_\_\_/\_\_\_/\_\_\_ Do Experiments 14.2 and 14.4

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**Week 28:** Complete Module 14 Study Guide.  
Take Module 14 Test.

___/___/___	Introduce Module 15 Do Experiments 15.1 and 15.2
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**Week 29:** Read pp. 369-375 and do OYO questions p. 371 and 375.  
Read pp. 375-381 and do OYO questions p. 382.  
Read pp. 382-384 and do OYO questions p. 384.

___/___/___	Introduce Module 16. Do Experiment 16.1 and 16.3
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**Week 30:** Complete Module 15 Study Guide.  
Take Module 15 Test.

### What's left to complete the Apologia General Science curriculum?

**OPTIONAL:** The following assignments can be completed at home in order for the student to complete the book.

- Read pp. 387-392 and do OYO questions p. 392 and 393.
- Read pp. 393-396 and do OYO questions p. 397.
- Read pp. 397-405 and do OYO questions p. 400, 401, and 405.
- Read pp. 405-409 and do OYO questions p. 408 and 409.
- Read pp. 410-419 and do OYO questions p. 415.
- Complete Module 16 Study Guide.
- Take Module 16 Test.
- Do Experiments 16.4, 16.5, 16.6