

Apologia General Science Co-op Schedule

Note to student: When there are notes concerning supplies for labs, etc., please come and tell mom. These notes will be in bold type.

Day 0 - **Supplies needed for Day 3 Experiments 1.1-1.4: Need maple syrup, a grape, piece of cork, 2 glass canning jars, food coloring, 2 ltr. bottle, a 6-9 inch round balloon, vinegar, baking soda, red cabbage, four thumbtacks or pushpins, piece of string 8 in. long, sheet of cardboard larger or same size as sheet of paper. Decide who is bringing what.**

Day 1 - Read/study p. 1 - 6 (skipping experiments for now). Always memorize boldfaced terms in text and review Figures - Figure 1.1 on p. 3.

Day 2 - p. 6 - 8; do OYO (On Your Own questions) p.8; correct using p.32. Review terms and Figures.

Day 3 - Meet at _____, ____ p.m. Do Experiments 1.1-1.4

Need maple syrup, a grape, piece of cork, 2 glass canning jars, food coloring, 2 ltr. bottle, a 6-9 inch round balloon, vinegar, baking soda, red cabbage, four thumbtacks or pushpins, piece of string 8 in. long, sheet of cardboard larger or same size as sheet of paper.

Bring Apologia book, lab notebook, and pencil.

- Read through the experiment entirely before starting.
- Start a new page in your laboratory notebook for each experiment. At the top of the page label the experiment - for example, Experiment 1.1 Density in Nature.
- Next, write "Data" and write down all data taken during the experiment and perform any exercises discussed in the experiment.
- After the data, put "Summary" and write a brief report/summary of what was done and what was learned.
- Do this for all experiments.

Day 4 - Read/study p. 8 - 12; Do OYO, p. 12; correct. Review Terms and Figures.

Day 5 - Read/study p.12 - 16; Do OYO, p. 16; correct. Terms and Figures.

Day 6 - Read/study p. 16 - 18; Do OYO, p. 19; correct. Terms and Figures.

Day 7 - Read/study p. 19 - 25; Do OYO, p. 23 and 25; correct. Terms and Figures. Review all boldfaced terms for the chapter.

Day 8 - Read/study p. 25 - 29; Do OYO, p. 29; correct. Review all OYO questions for the chapter using the correct answers on p.32. Terms and Figures.

Day 9 - Read/study p. 29 - 31. Do Study Guide, p. 33-34. Correct. If you miss more than 2, tell mom. Go back and redo the ones you missed making sure you fully understand it.

Review for the test tomorrow.

Day 10 - Module 1 TEST. Give test to mom to grade.

Day 11 - Correct the ones you missed on the test. Read/study p. 35 - 39 (skipping experiments). Do OYO p. 39; correct. Review terms and Figures. **For lab on Day 13-Need: heavy**

book, cardboard as big as a book, sheet of heavy paper and regular paper, paper clip, small rock, flashlight. Decide who brings what.

Day 12 - Read/study p. 40-44; Do OYO, p. 44; correct using answers on p. 56. Review terms and Figures.

Day 13 - Meet _____, ____ p.m. Do Experiments 2.1-2.3. Remember to follow notebook guidelines from Module 1. Need: heavy book, cardboard as big as a book, sheet of heavy paper and regular paper, paper clip, small rock, flashlight. Bring book, lab notebook, and supplies. Remember to write summary. **On Day 23 Need: tall glass, measuring cups, egg, four sheets of cardboard, tissue, 3 chunks of soap, 3 sticks of chewing gum, tweezers. Decide who brings what.**

Day 14 - Read/study p. 45 - 48; Do OYO, p. 48; correct. Review terms and Figures.

Day 15 - Read/study p. 49 - 53; Review terms and Figures for the entire chapter.

Day 16 - Read/study p. 53- 55; Do OYO, p. 55; correct. Review terms and Figures. Review all OYO questions for the chapter using the correct answers on p. 56.

Day 17 - Do Study Guide p. 57-58 making sure you understand everything.

Day 18 - Module 2 TEST. Give test to mom to grade.

Day 19 - Correct missed ones on test. Read/study p. 59 - 63(skipping experiments); Do OYO, p. 63; correct. Review terms and Figures.

Day 20 - Read/study p. 63 - 69 (skipping experiments); Do OYO p. 69; correct. Review terms and Figures.

Day 21 - Read/study p. 70 - 73; Do OYO p. 73; correct. Review all terms and Figures for the entire chapter.

Day 22 - Read/study p. 73 - 76; Do OYO p. 76; correct. Review terms and Figures. Review all OYO questions using correct answers on p. 77-78.

Day 23 - Meet _____, ____ p.m. Do Experiments 3.1-3.4. Need today: tall glass, measuring cups, egg, four sheets of cardboard, tissue, 3 chunks of soap, 3 sticks of chewing gum, tweezers. Bring book, lab notebook, and supplies. Remember to write summary. **On Day 28, Need: pencil, ruler, 5-10 quarters, 2 brooms or broom and mop, several feet of nylon rope. Decide who brings what.**

Day 24 - Do Study Guide p. 79-81; correct. Miss more than 2? Tell mom. Correct the ones you missed making sure you understand everything. Review for the test tomorrow.

Day 25 - Module 3 TEST. Give test to mom to grade.

Day 26 - Read/study p. 83-86; Do OYO p. 86; correct. Review terms and Figures.

Day 27 - Read/study p. 86-92 (skipping experiments); Do OYO p. 92; correct. Review terms and Figures.

Day 28 - Meet _____, ____ p.m. Do Experiments 4.1-4.2. Need: pencil, ruler, 5-10 quarters, 2 brooms or broom and mop, several feet of nylon rope. Bring book, lab notebook, and supplies. Remember to write summary.

Day 29 - Read/study p.93-95; Do OYO p.95; correct. Review terms and Figures.

Day 30 - Read/study p.95-99; Do OYO p. 99; correct. Review terms and Figures.

Day 31 - Read/study p.99-102; Do OYO p.100 and 102; correct. Review terms and Figures. Review all OYO questions for the chapter.

Day 32 - Read/study p.102-105; Do OYO p.105; correct. Review terms and Figures for the entire chapter.

Day 33 - Do Study Guide p. 109-110; correct. Miss > 2? tell mom. Correct missed ones making sure you understand everything. Review for the test tomorrow. **For Day 43, need 4 oz. alum, two weights (washers, nuts, etc.), sheet of dark paper, magnifying glass, dirt, gravel, sand, large glass with lid, plaster of paris, margarine tub, dry lima beans, vinegar, limestone rock, steel wool, shoebox, gardener's spade, large rock. Decide who brings what.**

Day 34 - Module 4 TEST. Give test to mom.

Day 35 - Correct test. Read/study p.111-116; Do OYO p. 116; correct. Review terms and Figures.

Day 36 - Read/study p. 116-119; Do OYO p. 199; correct. Review terms and Figures.

Day 37 - Read/study p. 119-122, Do OYO p. 122; correct. Review terms and Figures.

Day 38 - Read/study p. 123-124; Do OYO p. 124; correct. Review terms and Figures.

Day 39 - Read/study p. 124-128; Do OYO p. 128; correct. Review all terms and Figures for the chapter.

Day 40 - Read/study p. 128-132; Do OYO p. 130 and 132; correct. Review terms and Figures. Review all OYO questions for the chapter.

Day 41 - Study Guide p. 135-136; correct. Miss >2, tell mom. Correct missed ones making sure you understand everything.

Day 42 - Module 5 TEST. Give test to mom.

Day 43 - Meet _____, ___ p.m. Start Experiments 6.1-6.4; Do Experiment 6.5. Need 4 oz. alum, two weights (washers, nuts, etc.), sheet of dark paper, magnifying glass, dirt, gravel, sand, large glass with lid, plaster of paris, margarine tub, dry lima beans, vinegar, limestone rock, steel wool, shoebox, gardener's spade, large rock.

Day 44 - Meet _____, ___ p.m. Meet again to finish labs. Remember to write a summary for each lab. **On Day 53, Need modeling clay, plaster of paris, paper plate, sea shell, vaseline, margarine tub, rock that will fit in the marg. tub with a lot of room to spare. Decide who brings what. NOTE: The water in the tub needs to be frozen first and the rock placed on the ice 2 hours before lab starts.**

Day 45 - Correct Module 5 test. Read/study p. 137-141 (skipping experiments); Do OYO, p. 138 and 142; correct. Review terms and Figures.

Day 46 - Read/study p. 142-149 (skipping experiments); Do OYO p. 145 and 149; correct. Review terms and Figures. **Someone needs to start Experiment 9.3 and bring to lab on Day 76.**

Day 47 - Read/study p. 149-154; Do OYO p. 154; correct. Review all terms and Figures for the chapter.

Day 48 - Read/study p. 154-156; Do OYO p. 156; correct. Review terms and Figures. Review all OYO questions with correct answers for the chapter.

Day 49 - Do Study Guide p. 159-160; correct. Miss > 2? tell mom. Correct all missed ones making sure you understand everything. Review for test.

Day 50 - Module 6 TEST. Give test to mom.

Day 51 - Correct test. Read/study p .161-163; Do OYO p.163; correct. Review terms and Figures.

Day 52 - Read/study p. 164-167; Do OYO p. 165 and 167; correct. Review terms and Figures. **Remind mom: Make sure someone has frozen a tub of water for lab tomorrow and places the rock on it 2 hours before lab.**

Day 53 - Meet _____, _____ p.m. Do Experiments 7.1-7.2 Need modeling clay, plaster of paris, paper plate, shell, vaseline, frozen margarine tub of water, rock that will fit in the marg. tub with a lot of room to spare. Remember to write a summary. **For Day 63, Need 18 index cards that should be prepared beforehand by the mom according to p. 190. Decide who will bring them. This lab could easily just be done at home.**

Do we want to meet for this???

Day 54 - Read/study p.167-170; Do OYO p. 170; correct. Review terms and Figures.

Day 55 - Read/study p.170-173, Do OYO p. 173; correct. Review terms and Figures.

Day 56 - Read/study p.173-176, Do OYO p.176; correct. Review terms and Figures.

Day 57 - Read/study p.176-179, Do OYO p.169; correct. Review terms and Figures. Review terms and Figures for entire chapter.

Day 58 - Read/study p.179-183, Do OYO p. 182 and 183; correct. Review all OYO questions for the chapter.

Day 59 - Do Study Guide p. 187-188; correct. Miss > 2, tell mom. Correct all missed ones making sure you understand everything.

Day 60 - Module 7 TEST. Give test to mom.

Day 61 - Correct test. Read/study p. 189-191 (skipping exp.) Review terms and Figures.

Day 62 - Read/study p. 191-195, Do OYO p. 195; correct. Review terms and Figures.

Day 63 - Meet _____, ____ p.m. Do Experiment 8.1, p. 190. Need 18 index cards. Remember to write summary.

Day 64 - Read/study p. 195-197, Do OYO p. 197; correct. Review terms and Figures.

Day 65 - Read/study p. 197-202, Do OYO p. 202; correct. Review terms and Figures.

Day 66 - Read/study p. 202-206, Do OYO p. 206; correct. Review terms and Figures.

Day 67 - Read/study p. 206-210, Do OYO p. 210; correct. Review all terms and Figures for the chapter.

Day 68 - Read/study p.210-213, Do OYO p. 213; correct. Review terms and Figures. Review all OYO questions for the chapter.

Day 69 - Do Study Guide p. 215 -216; correct. Miss > 2, tell mom. Correct all missed ones making sure you understand everything. Review for test.

Day 70 - Module 8 TEST. Give test to mom.

(For those of you adding to this schedule, please add to Day 46 - Someone needs to start Experiment 9.3 and bring to lab on Day 76.)

Day 71 – Correct test. Read/study p. 217-219. OYO p. 219; correct. Study all bold typing and terms.

Day 72 – Read/study p. 220-224 (skipping experiment for now). OYO p. 225; correct. Review all terms and Figures.

Day 73 – Read/study p. 225-231 (skipping experiments). OYO p. 229 and 231; correct. Review all terms and Figures. **Supplies needed for lab on Day 76: long pipe cleaners, 4 colors of beads that will fit over pipe cleaners, scissors to cut pipe cleaners, one slice of uncooked potato, a pale green leaf that has been soaked overnight in alcohol, iodine, tweezers, earthworms, container with dirt.**

Day 74 – Read/study p. 231-235 (skipping exper.). OYO p. 235; correct. Review all bold typing, terms, and Figures. Review all OYO questions for the entire chapter.

Day 75 – Read/study p. 235-238. OYO p. 238; correct. Review all terms, Figures, and bold typing for the chapter. Someone needs to make sure the pale green leaf is soaked overnight tonight in alcohol for lab tomorrow (experiment 9.2).

Day 76 – Lab at _____ -- _____ p.m.

Do. Exper. 9.2 first to allow time for the leaf to sit in iodine. Next, start Exper. 9.4. Do Experiments 9.1, 9.2, 9.4, and 9.5. Someone will bring Experiment 9.3 today.
Supplies needed: long pipe cleaners, 4 colors of beads that will fit over pipe cleaners, scissors to cut pipe cleaners, one slice of uncooked potato, a pale green leaf that has been soaked overnight in alcohol, iodine, tweezers, earthworms, container with dirt.

Remember to write summary.

Day 77 - Study Guide p. 241-242. Correct. Miss any? Tell mom. Make sure you understand everything. Review well for test tomorrow.

Day 78 – Module 9 TEST. Give test to mom

Day 79 – Correct test. (Christmas break)

Day 80 – Read/study p. 243-247. OYO p. 247; correct. Review terms and Figures. **Someone needs to do Experiment 10.2 and bring to lab on Day 85. Someone needs to do Experiment 10.3 and bring it to lab on Day 85.**

Day 81 - Read/study p. 247-252 (skipping exper.). OYO p. 252; correct. Review all terms and Figures. **Tell mom need celery for Day 85.**

Day 82 - Read/study p. 252-254. OYO p. 255; correct. Review terms and Figures.

Day 83 – Read/study p. 255-258. OYO p. 259; correct. (Will have to wait to answer #2.) Review terms and Figures. **One of the group do Experiment 10.1 part one today.** Review all OYO questions for the chapter using the correct answers on p. 264.

Day 84 – Read/study p. 259-263. OYO p. 262-263; correct. Review all terms and Figures for the entire chapter. Need to soak the celery overnight for lab tomorrow.

Day 85 – Lab at _____ – _____ p.m. Do Experiments 10.1-10.4. Supplies needed: jars from Experiment 10.1 part one, Experiment 10.2 from who did it, Experiment 10.3 from who did it, and celery that's been soaked overnight.

Remember to write summary.

Day 86 – Study Guide p.265-266. Correct. Miss any? Tell mom. Make sure you understand everything.

Day 87 – Module 10 TEST. Give to mom.

Day 88 – School holidays. Make up days if needed. **Tell mom need chicken bone on Day 90 and 2 house plants on Day 91.**

Day 89 – Correct test. Read/study p. 267-269. OYO p. 269; correct. Review terms.

Day 90 – Read/study p. 269-273. OYO p. 273; correct. Review terms and Figures. Do Experiment 11.1 on your own at home today. Make sure you write everything in your lab notebook correctly, doing a summary at the end.

Day 91 - Read/study p. 273-275. OYO p. 275; correct. Review terms and Figures. Do Experiment 11.2 on your own at home today.

Day 92 – Read/study p. 275-281. OYO p. 281; correct. Review terms and Figures. Do Experiment 11.3 on your own at home today.

Day 93 – Read/study p. 281-282. OYO p. 282; correct. Review terms. Review all OYO questions for the chapter using the correct answers.

Day 94 – Read/study p. 282-290. OYO p. 288-289; correct. Review all terms and Figures for the entire chapter.

Day 95 – Study Guide p.293-294. Correct. Miss any? Tell mom. Make sure you understand everything. **Supplies needed Day 99: small candle (tealight candle in a small cup-like holder and won't float), glass that will cover candle, deep bowl, vinegar, baking soda, matches, hand held mirror, few leaves of red cabbage, quart of distilled water, 2 drinking straws, 2 ltr. Bottle, 6-8 in. balloon, vinegar, baking soda, oral thermometer.**

Day 96 – Module 11 TEST. Give to mom.

Day 97 – Correct test. Read/study p. 295-297; correct. Review terms and Figures. Remember, all bold typing is important.

Day 98 – Read/study p. 298-303 (skipping exper.). OYO p. 303; correct. Review all terms, bold typing and Figures.

Day 99 – Lab at _____ - ____ p.m. Experiments 12.1-12.3. Supplies needed: small candle (tealight candle in a small cup-like holder and won't float), glass that will cover candle, deep bowl, vinegar, baking soda, matches, hand held mirror, few leaves of red cabbage, quart of distilled water (need to distilled water for Day 109 also, 2 drinking straws, 2 ltr. Bottle, 6-8 in. balloon, vinegar, baking soda, oral thermometer. Remember to write summary after each lab.

Day 100 – Read/study p. 303-308. OYO p. 308; correct. Review terms and Figures.

Day 101 – Read/study p. 308-310. OYO p. 310; correct. Review terms.

Day 102 – Read/study p. 311-312. OYO p. 312; correct. Review terms and Tables. Review all terms, Figures, and bold typing for the chapter.

Day 103 – Read/study p. 313-316. OYO p. 316; correct. Review bold typing, Figures, and terms. Review all OYO for the entire chapter using the correct answers on p. 317.

Day 104 – Study Guide p. 319-320. Correct. Miss any? Tell mom. Make sure you understand everything. Make sure you know all terms and the bold typing. Review well.

Day 105 – Module 12 TEST. Give to mom. **Supplies needed for Day 109: saltine cracker, iodine, Tums tablets (white ones), colorless toilet bowl cleaner with hydrochloric acid or hydrogen chloride, red cabbage, 2 quarts of distilled water, baking soda.**

Day 106 – Correct test. Read/study p. 321-322. OYO p. 323; correct. Review terms.

Day 107 – Read/study p. 323-325. OYO p. 326; correct. Review terms and Figures.

Day 108 – Read/study p. 326-328. OYO p. 329; correct. Review terms and Figures.

Day 109 – Lab at _____ – ____ p.m. Experiments 13.1-13.3. Make double the red cabbage solution – needed for experiments 13.2 and 13.3. Supplies needed: saltine cracker, iodine, Tums tablets (white ones), colorless toilet bowl cleaner with hydrochloric acid or hydrogen chloride, red cabbage, 2 quarts of distilled water, baking soda. Remember to write summary.

Day 110 – Read/study p. 329-335. OYO p. 335; correct. Review terms and Figures.

Day 111 – Read/study p. 335-338. OYO p. 338; correct. Review all terms and Figures for the chapter.

Day 112 – Read/study p. 338-340. OYO p. 340; correct. Review terms and Figures. Review all OYO for the chapter. **Supplies needed for Day 117: stopwatch, flexible tubing (like**

aquarium tubing), plastic one gallon jug with lid, sink with a plug, plastic 2 ltr. Bottle, strong scissors, plastic sandwich bag, tape, 12 inch round balloon, rubber band big enough to fit around wrist without stretching (can be larger but not smaller), fresh white carnation that has sat overnight in blue and red food coloring. **Someone needs to prepare the carnation on Day 116 for lab on Day 117.**

Day 113 – Study Guide p. 343-344. Correct. Miss any? Tell mom. Make sure you understand everything. Review well.

Day 114 – Module 13 TEST. Give to mom.

Day 115 – Correct test. Read/study p. 345-348. OYO p. 348; correct. Review terms and Figures.

Day 116 – Read/study p. 348-354. OYO p. 354; correct. **Prepare the carnation for lab tomorrow.**

Day 117 – Lab at _____ – ___ p.m. Experiment 14.1-14.5. Supplies needed: stopwatch, flexible tubing (like aquarium tubing), plastic one gallon jug with lid, plastic 2 ltr. Bottle, strong scissors, plastic sandwich bag, tape, 12 inch round balloon, rubber band big enough to fit around wrist without stretching (can be larger but not smaller), fresh white carnation that has sat overnight in blue and red food coloring.

Day 118 – Read/study p.354-356. OYO p. 356; correct. Review terms and Figures.

Day 119 – Read/study p. 356-359. OYO p. 359; correct. Review terms and Figures.

Day 120 – Read/study p. 360-363. OYO p. 363; correct. Review terms and Figures. Review all terms, Figures, and bold typing for the chapter.

Day 121 – Read/study p. 363-365. OYO p. 365; correct. Review terms and Figures. Review all OYO for chapter using the correct answers on p. 366.

Day 122 – Study Guide p. 367-368. Correct. Miss any? Tell mom. Review well.

Day 123 – Module 14 TEST. Give to mom.

Day 124 – Correct test. Read/study p. 369-371. OYO p. 371; correct. Review terms and Figures.

Day 125 – Read/study p. 372-375. OYO p. 375; correct. Review all terms and Figures.

Day 126 – Lab at _____. Do Experiment 15.2 first because of waiting time.

Supplies needed: 3 small onions, tea bag, coffee filter.

Day 127 - Read/study p. 375-381. OYO p. 382; correct. Review all terms and Figures. Review all OYO for the chapter using correct answers on p. 385.

Day 128 – Read/study p. 382-384. OYO p. 384; correct. Review all terms, Figures, and bold typing for the entire chapter.

Day 129 – Study Guide p. 386. Miss any? Tell mom. Make sure you understand everything.

Day 130 – Module 15 TEST. Give to mom. **Supplies needed for Day 134: small ball that can be thrown with one hand, paper towel tube, lemon juice, onion juice, toothpicks, apple, onion, 2 well sharpened pencils.**

Day 131 – Correct test. Read/study p. 387-392. OYO p.392-393; correct. Review bold typing, terms, and Figures.

Day 132 – Read/study p. 393-396. OYO p. 397; correct. Review terms and Figures.

Day 133 - Read/study p. 397-399. OYO p. 400; correct. Review terms and Figures.

Day 134 – Lab at _____ – __ p.m. Experiments 16.1-16.6. Supplies needed: small ball that can be thrown with one hand, paper towel tube, lemon juice, onion juice, toothpicks, apple, onion, 2 well sharpened pencils.

Write your summaries.

Day 135 – Read/study p. 400-401. OYO p. 401. Correct. Review terms and Figures.

Day 136 – Read/study p. 402-405. OYO p. 405. Correct. Review terms and Figures.

Day 137 - Read/study p. 405-407. OYO p. 408; correct. Review terms and Figures.

Day 138 – Read/study p. 408-409. OYO p. 409; correct. Review all terms and Figures for the entire chapter.

Day 139 – Read/study p. 410-415. OYO p. 415; correct. Review all terms and Figures.

Day 140 - Read/study p. 415-419. Review all OYO for the chapter.

Day 141 – Study Guide p. 421-422. Miss any? Tell mom. Review well.

Day 142 – Module 16 TEST.

Day 143 – Correct test. Finished with General Science!!!! Yippee!!