

- 5b. Assist in repair or reassembly of either type of propeller.
 - 6a. Put on an aviation-oriented program for another post or another community youth group. OR
 - 6b. Be part of a ground crew for an aviation activity such as orientation flights, hot-air ballooning, or soaring.
 - 7a. Serve as a post officer.
 - 7b. Participate in a post officers' planning session to plan upcoming programs for your post.
 - 7c. Prepare for and lead at least one post program dealing with an aviation career or plan and lead a field trip to learn about an aviation career.
 - 8a. Construct and fly a radio-controlled model airplane.
OR
 - 8b. Build and launch a model rocket. Contact NASA for information on current or past NASA research projects and share it with your post or another group.
 - 9a. Arrange a tour of a Federal Aviation Administration (FAA) facility.
 - 9b. After the tour, lead a post discussion on the function and job requirements of that facility.
 - 10a. Arrange a tour at an airline or airport facility.
 - 10b. Recruit a speaker who is a commercial pilot, flight attendant, aircraft mechanic, ticket agent, airport manager, or other aviation professional for a post meeting. Have the speaker talk about his or her job, career, and education required.
 - 11. Find out what job opportunities are available in aviation. Describe the qualifications and working conditions of one job in which you are interested. Tell what it offers for reaching your goal in life.
 - 12a. Explain the differences in the operation of piston, turbojet, turboprop, and turbofan engines.
 - 12b. Tell six rules of safety to follow around airplanes and airports.
 - 13a. Describe how aviation has affected our world.
 - 13b. Describe some kinds of aircraft in use today.
 - * 14. Provide 50 hours of community service.
- * Asterisked items are required.



Learning-For-Life Youth Aviation Program

**Do You Have HIGH
Expectations??
Come Check Us Out.**

Meetings Tuesdays:

6:30 to 9:00 pm

**At the Department of the Airport in
Camarillo.**

From the 101 freeway take Las Posas south to Pleasant Valley Road, turn right then another right at Airport way, the first stop light.

Call: Dave Howells 805 484-5693

Joe Tischler 805 497-6502

Skip Loomis 805 642-6377

The aviation platoon of the Ventura Military
Explorer Post is the place for you.

Exciting meetings and activities

History Channel's Tactical to Practical presentation of Unmanned Air Vehicles engineer visited us live along with the Thousand Oaks Soaring Society.

Model jet aircraft demonstration detailed the engine operation, and inner workings.

Ultra-light tour.

Private Pilot fundamentals – Aircraft controls, Instruments, Navigation, Weather, cross country planning

Orientation flights	Camarillo Air Show
Model Airplanes	Gliders
Rockets	
Hands-on Construction	Metal, wood Fiberglass, fabric

We are actually building a 2-passenger biplane – Tiger Moth.

The Learning for Life program is recognized by colleges and the military.

The Aviation platoon explores various career aspects of aviation while incorporating leadership and community service. The aviation platoon is sponsored by the Experimental Aircraft Association, EAA. Orientation flights are earned and supplement the learning program that encourages youth to learn about all aspects of aviation.



Reading Plans and Preparing to Cut Metal



Sunday Glider Outing with Thousand Oaks Soaring Society



Explorer Post Booth at Camarillo Air Show

Aviation Achievements

Do nine of the following:

- * 1a. Learn how to preflight a fixed- or rotor-wing aircraft and then show a group how to do it.
- 1b. Show a group the location, and explain the function, of all primary engine and flight controls and instruments found in either a fixed- or rotor-wing aircraft.
- 1c. Use the flight simulator and demonstrate, setting of the HDI, and altimeter, climbing to an altitude and making a coordinated turn to a heading.
- 1d. Take an orientation flight supervised by a Post Advisor, where you demonstrate straight and level flight, climbing to an altitude and turning to a heading. .
- * 2a. Explain the meaning of symbols on a sectional chart.
- 2b. Draw and explain a wind triangle diagram to show how to obtain heading and ground speed when given: course, airspeed, wind direction, and wind speed.
- 2c. Explain the general differences between locating position by pilotage, dead reckoning, radio aids, and GPS.
- * 3a. Demonstrate how to file a flight plan. Also discuss the requirements for an alternate airport.
- 3b. Using a sectional chart, plot a triangular course with one leg at least 60 miles long. Figure magnetic headings and estimate flight times over well-chosen checkpoints, flying at a given airspeed with a given wind direction and speed. Explain the problem and the solution to a group, bringing out the major reasons for choosing the altitude of each leg and determination of a particular checkpoint.
- 3c. Plan a cross country flight in the local area.
- 3d. Use the flight simulator to demonstrate flying a course by dead reckoning and VOR.
- 3d. Take a cross country orientation flight.
- 4. Take down and reassemble an aircraft carburetor or equivalent part.
- 5a. Using cutaway diagrams or actual propellers, show the contrasts between controllable-pitch and fixed-pitch propellers.

OR