

FAA-G-8082-4B

**SPORT PILOT
AND
FLIGHT INSTRUCTOR WITH A SPORT PILOT
RATING
KNOWLEDGE TEST GUIDE**

August 2011



U.S. Department of Transportation
Federal Aviation Administration

INTRODUCTION

FAA-G-8082-4B, Sport Pilot and Flight Instructors with a Sport Pilot Rating Knowledge Test Guide provide information for preparing you to take one or all of the following knowledge tests: Sport Pilot Airplane, Balloon, Glider, Airship, Powered Parachute, Weight Shift Control, and Gyroplane. This document supersedes FAA-G-8082-4A, dated 2008.

TEST NAME	TEST CODE
Sport Pilot—Airplane	SPA
Sport Pilot—Lighter-Than-Air (Balloon)	SPB
Sport Pilot—Glider	SPI
Sport Pilot—Lighter-Than-Air (Airship)	SPL
Sport Pilot—Powered Parachute	SPP
Sport Pilot—Weight Shift Control	SPW
Sport Pilot—Gyroplane	SPY
Flight Instructor—Sport Airplane	SIA
Flight Instructor—Sport Balloon	SIB
Flight Instructor—Sport Glider	SIG
Flight Instructor—Sport Lighter-Than-Air (Airship)	SIL
Flight Instructor—Sport Powered Parachute	SIP
Flight Instructor—Sport Weight-Shift-Control	SIW
Flight Instructor—Sport Gyroplane	SIY

Federal Aviation Administration (FAA) airman knowledge tests are an effective instrument for aviation safety and regulation compliance measurement. However, these tests can only sample the vast amount of knowledge every pilot needs to operate safely in the National Airspace System (NAS).

Comments may be e-mailed to AFS630Comments@faa.gov.

KNOWLEDGE TEST ELIGIBILITY REQUIREMENTS

If you are pursuing a Sport Pilot Certificate, you should review Title 14 of the Code of Federal Regulations (14 CFR) part 61, Section 61.23, Medical Certificates: Requirement and Duration; 14 CFR part 61, Section 61.35, Knowledge Test: Prerequisites and Passing Grades; and 14 CFR part 61, Subpart J—Sport Pilots.

If you are pursuing a flight instructor with a Sport Pilot Rating Certificate, you should review 14 CFR part 61, Section 61.23, Medical Certificates: Requirement and Duration; 14 CFR part 61, Section 61.35, Knowledge Test: Prerequisites and Passing Grades; and 14 CFR part 61, Subpart J—Sport Pilots and Subpart K—Flight Instructors With a Sport Pilot Rating.

KNOWLEDGE AREAS ON THE TESTS

Sport Pilot and Flight Instructor with a Sport Pilot Rating Tests are comprehensive because they must test your knowledge in many subject areas. If you are pursuing a Sport Pilot Certificate or added rating, you should review 14 CFR part 61, Section 61.309, “What aeronautical knowledge must I have to apply for a sport pilot certificate?” If you are pursuing a flight instructor with a Sport Pilot Rating Certificate or added rating, you should review 14 CFR part 61, Section 61.407, “What aeronautical knowledge must I have to apply for a flight instructor certificate with a sport pilot rating?”

DESCRIPTIONS OF THE TESTS

All test questions are the objective, multiple-choice type. Each question can be answered by the selection of a single response. Each test question is independent of other questions; therefore, a correct response to one does not depend upon, or influence, the correct response to another. **The minimum passing score is 70 percent.**

Each of the following knowledge tests contains 40 questions, and you are allowed 2 hours to complete each test.

- Sport Pilot—Airplane
- Sport Pilot—Lighter-Than-Air (Balloon)
- Sport Pilot—Glider
- Sport Pilot—Lighter-Than-Air (Airship)
- Sport Pilot—Powered Parachute
- Sport Pilot—Weight Shift Control
- Sport Pilot—Gyroplane

Each of the following knowledge tests contains 70 questions, and you are allowed 2 hours and 30 minutes to complete each test.

- Flight Instructor—Sport Airplane
- Flight Instructor—Sport Balloon
- Flight Instructor—Sport Glider
- Flight Instructor—Sport Lighter-Than-Air (Airship)
- Flight Instructor—Sport Powered Parachute
- Flight Instructor—Sport Weight-Shift-Control
- Flight Instructor—Sport Gyroplane

TEST REGISTRATION

The FAA has available hundreds of computer-testing centers worldwide. These testing centers offer the full range of airman knowledge tests including military competence, instrument foreign pilot, and pilot examiner pre-designated tests. A list of computer testing designees (CTDs) and phone numbers are provided in the section titled Training and Testing Publications and General Information under Knowledge Test Centers.

The first step in taking a knowledge test is the registration process. You may either call the central 1-800 numbers or simply use the walk-in basis. If you choose to use the 1-800 numbers to register, you will need to select a testing center, schedule a test date, and make financial arrangements for test payment. You may register for tests several weeks in advance, and you may cancel your appointment according to the CTD's cancellation policy. If you do not follow the CTD's cancellation policies, you could be subject to a cancellation fee.

TAKING A KNOWLEDGE TEST

The next step in taking a knowledge test is providing proper identification. You should determine what knowledge test prerequisites are necessary before going to the computer-testing center. Your instructor or local Flight Standards District Office (FSDO) can assist you with what documentation to take to the testing facility. Testing center personnel will not begin the test until your identification is verified.

Acceptable forms of authorization:

- A certificate of graduation or a statement of accomplishment certifying the satisfactory completion of the ground school portion of a course from an FAA-certificated pilot school.
- A certificate of graduation or a statement of accomplishment certifying the satisfactory completion of the ground school portion of a course from an agency such as a high school, college, adult education program, U.S. Armed Force, ROTC Flight Training School, or Civil Air Patrol.
- A written statement or logbook endorsement from an authorized instructor certifying that you have accomplished a ground training or home study course required for the rating sought and you are prepared for the knowledge test.
- Failed Airman Knowledge Test Report, passing Airman Knowledge Test Report, or expired Airman Knowledge Test Report (pass or fail), provided that you still have the original Airman Knowledge Test Report in your possession. Before you take the actual test, you will have the option to take a sample test. The actual test is time limited; however, you should have sufficient time to complete and review your test.

Make sure you carefully read the instructions given with each test, as well as the statements in each test item.

When taking a test, keep the following points in mind:

- Answer each question in accordance with the latest regulations and guidance publications.
- Read each question carefully before looking at the possible answers. You should clearly understand the problem before attempting to solve it.
- After formulating an answer, determine which choice corresponds with that answer. The answer chosen should completely resolve the problem.
- From the answers given, it may appear that there is more than one possible answer; however, there is only one answer that is correct and complete. The other answers are either incomplete, erroneous, or represent common misconceptions.
- If a certain question is difficult for you, it is best to mark it for review and proceed to the next question. After you answer the less difficult questions, return to those which you marked for review and answer them. The review marking procedure will be explained to you prior to starting the test. Although the computer should alert you to unanswered questions, make sure every question has an answer recorded. This procedure will enable you to use the available time to maximum advantage.
- When solving a calculation problem, select the answer closest to your solution. The problem has been checked with various types of calculators; therefore, if you have solved it correctly, your answer will be closer to the correct answer than any of the other choices.

USE OF TEST AIDS AND MATERIALS

You may use aids, reference materials, and test materials within the guidelines listed below, if actual test questions or answers are not revealed. All models of aviation-oriented calculators may be used, including small electronic calculators that perform only arithmetic functions (add, subtract, multiply, and divide). Simple programmable memories, which allow addition to, subtraction from, or retrieval of one number from the memory, are permissible. Also, simple functions, such as square root and percent keys are permissible.

The following guidelines apply:

1. You may use any reference materials provided with the test. In addition, you may use scales, straightedges, protractors, plotters, navigation computers, log sheets, and electronic or mechanical calculators that are directly related to the test.
2. Manufacturer's permanently inscribed instructions on the front and back of such aids (e.g., formulas, conversions, regulations, signals, weather data, frequencies, weight-and-balance formulas) are permissible.
3. Testing centers may provide a calculator to you and/or deny use of your personal calculator based on the following limitations:
 - a. Prior to, and upon completion of the test, while in the presence of the proctor, you must actuate the ON/OFF switch and perform any other function that ensures erasure of any data stored in memory circuits.
 - b. The use of electronic calculators incorporating permanent or continuous type memory circuits without erasure capability is prohibited. The proctor may refuse the use of your calculator when unable to determine the calculator's erasure capability.
 - c. Printouts of data must be surrendered at the completion of the test if the calculator incorporates this design feature.
 - d. The use of magnetic cards, magnetic tapes, modules, computer chips, or any other device upon which pre-written programs or information related to the test can be stored and retrieved is prohibited.
 - e. You are not permitted to use any booklet or manual containing instructions related to use of test aids.
4. Dictionaries are not allowed in the testing area.
5. The proctor makes the final determination relating to test materials and personal possessions you may take into the testing area.

DYSLEXIC TESTING PROCEDURES

If you are a dyslexic applicant, you may request approval from the local Flight Standards District Office (FSDO) or International Field Office (IFO) to take an airman knowledge test, using one of the three options listed in preferential order:

- Option 1. Use current testing facilities and procedures whenever possible.
- Option 2. You may use a Franklin Speaking Wordmaster® to facilitate the testing process. The Wordmaster® is a self-contained electronic thesaurus that audibly pronounces typed in words and presents them on a display screen. It has a built-in headphone jack for private listening. The headphone feature must be used during testing to avoid disturbing others.
- Option 3. If you do not choose to use the first or second option, you may request a proctor to assist in reading specific words or terms from the test questions and supplement material. In the interest of preventing compromise of the testing

process, the proctor must be someone who is non-aviation oriented. The proctor must provide reading assistance only, with no explanation of words or terms. When this option is requested, the FSDO or IFO inspector must contact the Airman Testing Standards Branch (AFS-630) for assistance in selecting the test site and proctor.

Prior to approval of any option, the FSDO or IFO inspector must advise you of the regulatory certification requirement of being able to read, write, speak, and understand the English language.

CHEATING OR OTHER UNAUTHORIZED CONDUCT

Computer testing centers must follow strict security procedures to avoid test compromise. These procedures are established by the FAA and are covered in FAA Order 8080.6, (as amended) Conduct of Airman Knowledge Tests. The FAA has directed testing centers to terminate a test at any time a test proctor suspects a cheating incident has occurred. An FAA investigation will then be conducted. If the investigation determines that cheating or unauthorized conduct has occurred, then any airman certificate or rating that you hold may be revoked, and you will be prohibited for 1 year from applying for or taking any test for a certificate or rating under 14 CFR part 61.

KNOWLEDGE TEST REPORTS

Upon completion of the knowledge test, you will receive your Airman Knowledge Test Report, with the testing center's embossed seal, which reflects your score.

The Airman Knowledge Test Report lists the learning statement codes for questions answered incorrectly. The total number of codes shown on the Airman Knowledge Test Report is not necessarily an indication of the total number of questions answered incorrectly.

The Learning Statement Reference Guide for Airman Knowledge Testing, found at www.faa.gov, contains the listings of learning statement codes for airman knowledge testing. You should match the codes on your Airman Knowledge Test Report to the codes in the Learning Statement Reference Guide. You should then review the knowledge areas described by the learning statements associated with each code.

Your instructor is required to provide instruction on each of the knowledge areas listed on your Airman Knowledge Test Report and to complete an endorsement of this instruction. The Airman Knowledge Test Report must be presented to the examiner prior to taking the practical test. During the oral portion of the practical test, the examiner is required to evaluate the noted areas of deficiency.

Should you require a duplicate Airman Knowledge Test Report due to loss or destruction of the original, send a signed request accompanied by a check or money order for \$1.00, payable to the FAA. Send the request to:

Federal Aviation Administration
Airmen Certification Branch, AFS-760
P.O. Box 25082
Oklahoma City, OK 73125

Airman Knowledge Test Reports are valid for the 24-calendar month period proceeding the month you complete the practical test. **If the Airman Knowledge Test Report expires before completion of the practical test, you must retake the knowledge test.**

RETESTING PROCEDURES

If you receive a grade lower than 70 percent and wish to retest, you must present the following to testing center personnel.

- Failed Airman Knowledge Test Report.
- A written endorsement from an authorized instructor certifying that additional instruction has been given, and the instructor finds you competent to pass the test.

If you decide to retake the test in anticipation of a better score, you may retake the test after 30 days from the date your last test was taken. The FAA will not allow you to retake a passed test before the 30-day period has lapsed. Prior to retesting, you must give your current Airman Knowledge Test Report to the test proctor. The last test taken will reflect the official score.

TRAINING AND TESTING PUBLICATIONS AND GENERAL INFORMATION

Most of the current Flight Standards Service airman training and testing publications can be obtained in electronic format from the FAA Web site, www.faa.gov. The training and testing publications and general information can be found on the opening page of that Web site under the Training and Testing tab. If a publication is not available in electronic format, there are instructions for obtaining paper copies. Information found on the Web site includes the following:

- Advisory Circulars
- Airworthiness Directives
- Code of Federal Regulations
- Computer Testing Supplements
- Knowledge Test Centers
- Sample Knowledge Test questions
- Knowledge Test statistics
- Learning Statement Reference Guide
- Practical Test Standards
- Training handbooks
- Type Certificate Data Sheets

Advisory Circulars

Advisory circulars (ACs) provide guidance and information on various subjects related to airman certification.

Airworthiness Directives

Airworthiness Directives (ADs) are notifications to aircraft owners of a known safety deficiency with a specific model of aircraft, engine, avionics, or other system.

Code of Federal Regulations

The portion of 14 CFR containing what was formerly known as the Federal Aviation Regulations can be found on the Website. 14 CFR contains regulations designed to promote aviation safety, and govern all aviation activities in the United States.

Computer Testing Supplements

The knowledge testing supplements contain the graphics, legends, and maps that are needed to successfully respond to certain knowledge test items. CTD test center personnel will provide these supplements during the airman knowledge test.

Knowledge Test Centers

The Knowledge Test Centers portion of the Web site contains current listings of computer testing designees (CTDs) and other testing centers, and the registration telephone numbers to call to register for a test.

The following is a list of the computer testing designees authorized to give FAA airman knowledge tests. This list should be helpful in case you choose to register for a test or simply want more information.

Computer Assisted Testing Service (CATS)

1801 Murchison Drive, Suite 288

Burlingame, CA 94010

Applicant inquiry and test registration: 1-800-947-4228

From outside the U.S. (650) 259-8550

LaserGrade Computer Testing

16821 SE McGillivray Blvd., Suite 201

Vancouver, WA 98683

Applicant inquiry and test registration: 1-800-211-2753 or 1-800-211-2754

From outside the U.S. (360) 896-9111

Knowledge Test Questions

Sample questions are located in the Airman Knowledge Test Questions section of Web site and represent the types of questions included in the actual test banks. Practicing these questions will help you become familiar with similar questions on the airman knowledge tests. The knowledge test is not designed to intimidate any prospective airman; it is designed to measure an applicant's understanding of the rules, regulations and knowledge areas required to receive an FAA certificate.

Knowledge Test Statistics

Test statistics for all airman knowledge tests are contained in a series of tables organized by year and subject area. Individual tables are provided for the following subject areas: test volume, pass rates, average test scores, countries, regions, and district offices.

Learning Statement Reference Guide

Learning statement codes replace the old subject matter codes, and they are noted on the test report. They refer to measurable statements of knowledge that a student should be able to demonstrate following a defined element of training. The learning statement corresponding to the learning statement code on the test report can be located in the Learning Statement Reference Guide on the Web site.

Practical Test Standards

The practical test standards outline the knowledge and skill requirements for each airman certificate and rating. The references listed in each task of the practical test standards indicate

the specific publications used to develop the skill standards. The ability to issue immediate changes prior to publishing revised printed copies ensures the practical test standards are always accurate and usable.

Training Handbooks

The training handbooks are the basic information sources an airman applicant should refer to when preparing for the knowledge and practical tests for a specific certificate or rating.

Type Certificate Data Sheets (TCDS)

A Type Certificate Data Sheet contains a formal description of an aircraft, engine, or propeller, including detailed specification of the type design and the information required for type certification.

MOST FREQUENTLY ASKED QUESTIONS

1. Q. Where can I get information about the Sport Pilot Program?

- A. *Sport pilot enthusiasts may find information on the Light Sport Aviation Branch (AFS-610) website at:*
http://www.faa.gov/about/office_org/headquarters_offices/avs/offices/afs/afs600/afs610/

2. Q. What is the age requirement to take the Sport Pilot Knowledge Test?

- A. *An applicant must be at least 15 years of age to take the test, although applicants for the balloon or glider tests must be at least 14 years of age. Prior to taking the knowledge test, an applicant shall be asked to present a birth certificate or other official documentation as evidence of meeting the age requirement.*

3. Q. What aircraft can I fly as a sport pilot?

- A. *You are limited to flying an aircraft that meets the definition of a Light Sport Aircraft (LSA). An LSA is any certificated aircraft, other than a helicopter or powered-lift that since its original certification, has continued to meet the following performance parameters:*
- *1,320 pounds Maximum Takeoff Weight (1,430 pounds for seaplanes);*
 - *120 knots (138 mph) maximum airspeed in level flight with maximum continuous power (V_H) under standard atmospheric conditions at sea level;*
 - *a maximum never-exceed speed (V_{NE}) of not more than 120 knots CAS for a glider;*
 - *maximum stalling speed or minimum steady flight speed without the use of lift-enhancing devices (V_{S1}) of not more than 45 knots CAS at the aircraft's maximum certificated takeoff weight and most critical center of gravity;*
 - *a maximum seating capacity of no more than two persons, including the pilot;*
 - *a single, reciprocating engine, if powered;*
 - *a fixed or ground-adjustable propeller if a powered aircraft other than a powered glider;*
 - *a fixed or feathering propeller system if a powered glider;*
 - *a fixed-pitch, semi-rigid, teetering, two-blade rotor system, if a gyroplane;*
 - *a non-pressurized cabin, if equipped with a cabin;*

- *fixed landing gear, except for an aircraft intended for operation on water or a glider;*
- *fixed or retractable landing gear, or a hull, for an aircraft intended for operation on water;*
- *fixed or retractable landing gear for a glider.*

4. Q. What are the restrictions on a Sport Pilot?

A. Sport Pilots cannot make flights:

- *at night;*
- *in class A, B, C, or D airspace or at an airport having an operational control tower;*
- *outside the United States without advance permission from that/those country(ies);*
- *for the purpose of sight-seeing with passengers for charity fundraisers;*
- *above 10,000' MSL or 2,000' AGL, whichever is higher;*
- *when the flight or surface visibility is less than 3 statute miles;*
- *unless you can see the surface of the earth for flight reference;*
- *in LSA with a maximum speed in level flight with maximum continuous power (V_H) of greater than 87 knots (100 mph), unless you receive training and a logbook endorsement;*
- *if the operating limitations issued with the aircraft do not permit that activity;*
- *contrary to any limitation listed on the pilot's certificate, United States driver's license, FAA medical certificate, or logbook endorsement(s);*
- *while carrying a passenger or property for compensation or hire (no commercial operations);*
- *in furtherance of a business;*
- *while carrying more than one passenger;*
- *to demonstrate the aircraft in flight to a prospective buyer if you are an aircraft salesperson;*
- *in LSA with a maximum horizontal speed (V_H) less than or equal to 87 knots, unless you receive training and logbook endorsement or have logged flight time as a Pilot-in-Command of an airplane with a V_H less than or equal to 87 knots before April 2, 2010;*
- *as a pilot flight crewmember on any aircraft for which more than one pilot is required by the type of certificate of the aircraft of the regulation under which the flight is conducted.*

5. Q. How should I prepare for the knowledge test?

- A. To adequately prepare for the knowledge test, your instructor should review with you 14 CFR part 61, section 309, for preparing for the Sport Pilot Knowledge Test. The review should ensure you and your instructor are confident you are prepared for the test in each aeronautical knowledge area.*

The regulations require an applicant to have logged ground training from an authorized instructor, or to present evidence of having satisfactorily completed a course of instruction or home-study course in the knowledge areas appropriate to the category and class aircraft for the rating sought.

6. Q. What document or documents must I present prior to taking a knowledge test?

A. *An applicant for a knowledge test must present appropriate personal identification. The identification must include a photograph of the applicant, the applicant's signature, and the applicant's actual residential address (if different from the mailing address). This information may be presented in more than one form. The applicant must also present one of the following:*

- (1) *A certificate of graduation from an FAA-approved pilot school or pilot training course appropriate to the certificate or rating sought, or a statement of accomplishment from the school certifying the satisfactory completion of the ground-school portion of such a course.*
- (2) *A written statement or logbook endorsement from an FAA-Certificated Ground or Flight Instructor, certifying that the applicant has satisfactorily completed an applicable ground training or home-study course and is prepared for the knowledge test.*
- (3) *A certificate of graduation from a home-study course developed by the aeronautical enterprise providing the study material. The certificate of graduation must correspond to the FAA knowledge test for the certificate or rating sought. The aeronautical enterprise providing the course of study must also supply a comprehensive knowledge test, which can be scored as evidence that the student has completed the course of study. When the student satisfactorily completes the knowledge test, it is sent to the course provider for scoring by an FAA-Certificated Ground or Flight Instructor. The instructor personally evaluates the test and attests to the student's knowledge of the subjects presented in the course. Upon satisfactory completion, a graduation certificate is sent to the student.*
- (4) *In the event of retesting after a failure, the applicant must present the unsatisfactory Airman Test Report. If the applicant elects to retest for a higher score, the satisfactory Airman Test Report must be surrendered to the test administrator.*

7. Q. If I fail the knowledge test, is there any way to determine the areas in which I need additional work, so I can study for a retest?

A. *Yes. You will receive an Airman Test Report from the testing center. The test report will contain your test score and will list Learning Statement Codes for any questions that are answered incorrectly. Pages 5 and 6 in this guide describe how to use this information for additional study of the knowledge areas in which you were deficient.*

8. Q. If I pass the knowledge test, will I receive the same information concerning areas in which I need additional work as I would if I failed the test?

A. *Yes. (Refer to the previous answer.)*

9. Q. How long is a satisfactorily completed knowledge test valid?

A. *2 years. You must present your satisfactorily completed knowledge test at the time you apply for the practical test. You must have passed the knowledge test within the 24-calendar-month period preceding the month you complete the practical test. If a practical test is not satisfactorily completed during that period, you must take and pass another knowledge test before you can take the practical test.*

**Sport Pilot – Airplane (SPA)
Sample Questions**

SPORT PILOT – AIRPLANE (SPA)

1. The purpose of Military Training Routes, charted as VFR Military Training Routes (VR) and IFR Military Training Routes (IR) on sectional charts, is to ensure the greatest practical level of safety for all flight operations and to allow the military to conduct

- A—low altitude, high-speed training.
- B—radar instrument training.
- C—air-to-air refueling training.

Answer: A.

Learning Statement: Recall aircraft general knowledge/publications/AIM/navigational aids.

2. (Refer to figure 24) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

- A—1,341 feet MSL.
- B—1,451 feet MSL.
- C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

3. What is the antidote when a pilot has the hazardous attitude of “Invulnerability?”

- A—It cannot be that bad.
- B—It could happen to me.
- C—It will not happen to me.

Answer: B.

Learning Statement: Recall Aeronautical Decision Making (ADM)-hazardous attitudes.

4. How long does the Airworthiness Certificate of an aircraft remain valid?

- A—As long as the aircraft has a current Registration Certificate.
- B—Indefinitely, unless the aircraft suffers major damage.
- C—As long as the aircraft is maintained and operated as required by Federal Aviation Regulations.

Answer: C.

Learning Statement: Recall regulations-airworthiness certificates/requirements/responsibilities.

5. What is pressure altitude?

A—The indicated altitude corrected for position and installation error.

B—The altitude indicated when the barometric pressure scale is set to 29.92.

C—The indicated altitude corrected for nonstandard temperature and pressure.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE SPORT PILOT – AIRPLANE (SPA)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Dead Reckoning	Wind
PLT023 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Flight Instruments	Altimeter
PLT025 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Theories in Lift Production
PLT026 AC 00-6 Aviation Weather Weather	Aeronautical Weather Reports	Ceiling
PLT039 Aeronautical Information Manual Airport Operations	Traffic Patterns	Direction
PLT064 Aeronautical Information Manual Airport Operations	Communications	CTAF
Airport Operations	Uncontrolled	Communications
Airport Operations	Uncontrolled	Information Sources
Airspace	Controlled	Class B
Airspace	Controlled	Class D
Airspace	Special Use	MOA
Airspace	Special Use	Restricted Airspace
Airspace	Uncontrolled	Class E
Regulations	14 CFR Part 91	Section 91.155 Basic VFR Weather Minimums
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Pilotage	Checkpoints
Sectional Aeronautical Chart Airspace	Controlled	Class C
Airspace	Controlled	Class D
Publications	Aeronautical Charts	Sectionals
PLT074 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Load Factor	Limitations
PLT077 Aeronautical Information Manual Airport Operations	Traffic Patterns	Runway Selection
PLT095 Aircraft Weight and Balance Handbook, FAA-H-8083-1 Weight and Balance	Center of Gravity	Computations
PLT097 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Human Factors	Aero-medical	Carbon Monoxide Poisoning
PLT098 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Human Factors	Aero-medical	Dehydration and Heatstroke
PLT103 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Hazardous Attitude
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Human Factors	ADM	Hazardous Attitude
PLT104 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Risk Management
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Human Factors	ADM	Stress Management

PLT112		
Airplane Flying Handbook, FAA-H-8083-3A		
Airport Operations	Taxiing	Headwinds
Airport Operations	Taxiing	Tailwinds
PLT114		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading	Weight
PLT116		
Aeronautical Information Manual		
Air Traffic Control Procedures	Communications	Self-Announce
Air Traffic Control Procedures	Departure	VFR Flight Plans
Airport Operations	Lighting	PAPI
Airport Operations	Lighting	PVASI
Airport Operations	Marking/Signs	Runway Incursions
Airspace	Special Use	Wildlife Refuges
Flight Operations	CFIT	Antenna Towers
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage	Checkpoints
www.faa.gov-Search for ACs		
Publications	Advisory Circulars	Acquisition
PLT122		
Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Checklist Usage	Pilot
PLT124		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects	High Humidity
PLT126		
AC 91-13 Cold Weather Operation of Aircraft		
Aircraft Systems	Powerplant	Oil System
PLT127		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Density Altitude	Altitude Effects
Flight Operations	Landing	Performance
PLT129		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Computations	Takeoff and Landing
PLT131		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Performance	Ground Effect
PLT132		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Flight Operations	X-C	Cruise
PLT134		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Flight Operations	Takeoff	Performance
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking/Signs	Mandatory Instruction Signs
Airport Operations	Marking/Signs	Runway
Airport Operations	Marking/Signs	Runway Incursions
Publications	AIM	Contents
PLT146		
Aeronautical Information Manual		
Airport Operations	Traffic Patterns	Departure
PLT161		
14 CFR 91		
Airport Operations	Traffic Patterns	Direction
Aeronautical Information Manual		
Airspace	Controlled	Class C
Airspace	Controlled	Class D
PLT162		
14 CFR 91		
Airport Operations	Traffic Patterns	Direction
Airspace	Controlled	Class C

PLT163			
14 CFR 61			
Airspace	Cloud Clearances/Visibility		Class G
Airspace	Uncontrolled		Class G
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.155 Basic VFR Weather Minimums
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Airspace	Cloud Clearances/Visibility		Class E
PLT170			
Aeronautical Information Manual			
Air Traffic Control Procedures	Arrival		Visual Clearing Procedures
Airplane Flying Handbook, FAA-H-8083-3A			
Flight Operations	Landing		Turbulent Air Approach
PLT173			
AC 00-6 Aviation Weather			
Weather	Meteorology		Air Masses
PLT192			
AC 00-6 Aviation Weather			
Weather	Hazardous		Turbulence
PLT194			
AC 90-48 Pilots' Role in Collision Avoidance			
Flight Operations	Collision Avoidance		Effective Scanning
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Flight Operations	Collision Avoidance		Maneuvers
Flight Operations	Collision Avoidance		Vision in Flight
PLT198			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Dead Reckoning		Wind
PLT200			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Dead Reckoning		Calculations
Navigation	Dead Reckoning		Measurement of Direction
PLT205			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.17 Alcohol and Drugs
PLT206			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Atmospheric Effects		Density Altitude
PLT208			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Flight Operations	Emergency Procedures		Preparations
PLT215			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Pilotage		Compass
PLT235			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT242			
Aircraft Weight and Balance Handbook, FAA-H-8083-1			
Weight and Balance	Aircraft Loading		Weight
PLT247			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT290			
Aeronautical Information Manual			
Weather	Aeronautical Weather Reports		SIGMETS
PLT291			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Area Forecast
PLT313			
Aircraft Weight and Balance Handbook, FAA-H-8083-1			
Weight and Balance	Aircraft Loading		Management
PLT323			
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Flight Service Stations
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Publications	NOTAMS		Contents

PLT324 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Powerplant	Oil System
PLT328 Aircraft Weight and Balance Handbook, FAA-H-8083-1 Weight and Balance	Aircraft Loading	Weight
PLT332 Aeronautical Information Manual Human Factors	Aero-medical	Hyperventilation
PLT335 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Pilotage	Calculations
Navigation	Pilotage	Cross-country
PLT342 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Powerplant	Cooling
PLT351 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Propeller	Density Altitude
PLT366 49 CFR 830 Regulations	NTSB Part 830	Reporting
PLT376 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Airspace	Other	Temporary Flight Restriction
PLT384 14 CFR 91 Regulations	14 CFR Part 91	Section 91.107 Safety Belts/Shoulder Harness
PLT387 14 CFR 61 Regulations	14 CFR Part 61	Section 61.60 Change of Address
PLT395 14 CFR 1 Regulations	14 CFR Part 1	Section 1.1 General Definitions
PLT400 14 CFR 91 Regulations	14 CFR Part 91	Section 91.203 Aircraft Certifications Required
PLT403 14 CFR 91 Regulations	14 CFR Part 91	Section 91.3 Pilot-in-Command
PLT430 14 CFR 91 Regulations	14 CFR Part 91	Section 91.119 Minimum Safe Altitudes
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Pilotage	Checkpoints
PLT431 14 CFR 91 Regulations	14 CFR Part 91	Section 91.111 Operating Near Other Aircraft
PLT441 14 CFR 91 Flight Operations	Personal Equipment	Seat Belts
PLT443 14 CFR 1 Regulations	14 CFR Part 61	Section 61.315 Sport Pilot Privileges/Limitations
Aeronautical Information Manual Regulations	14 CFR Part 91	Section 91.3 Pilot-in-Command
PLT444 Aircraft Weight and Balance Handbook, FAA-H-8083-1 Weight and Balance	Center of Gravity	Records
PLT445 14 CFR 91 Regulations	14 CFR Part 91	Section 91.103 Pre-flight Action
PLT463 14 CFR 61 Regulations	14 CFR Part 61	Section 61.15 Offenses Involving Alcohol/Drugs
PLT465 14 CFR 91 Regulations	14 CFR Part 91	Section 91.107 Safety Belts/Shoulder Harness

PLT475 AC 00-6 Aviation Weather Weather	Hazardous	Thunderstorms
PLT477 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Stall/Spins	Angle of Attack
PLT479 Airplane Flying Handbook, FAA-H-8083-3A Aircraft Systems	Powerplant	Engine Instruments
PLT495 AC 00-6 Aviation Weather Weather	Hazardous	Wind shear
Weather	Meteorology	Thunderstorms
PLT497 Aeronautical Information Manual Air Traffic Control Procedures	Communications	Distress
PLT501 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Load Factor	Rough Air
PLT509 Aeronautical Information Manual Airport Operations	Wake Turbulence	Creation
Flight Operations	Wake Turbulence	Creation
Flight Operations	Wake Turbulence	Movement
Flight Operations	Wake Turbulence	Strength
PLT514 Aeronautical Information Manual Weather	Aeronautical Weather Forecasts	Pre-flight Briefing
PLT518 AC 00-6 Aviation Weather Weather	Hazardous	Wind shear

**Sport Pilot—Lighter-Than-Air (Balloon) (SPB)
Sample Questions**

SPORT PILOT—LIGHTER-THAN-AIR (BALLOON) (SPB)

1. The purpose of Military Training Routes, charted as VFR Military Training Routes (VR) and IFR Military Training Routes (IR) on sectional charts, is to ensure the greatest practical level of safety for all flight operations and to allow the military to conduct

A—low altitude, high-speed training.

B—radar instrument training.

C—air-to-air refueling training.

Answer: A.

Learning Statement: Recall aircraft general knowledge/publications/AIM/navigational aids.

2. (Refer to figure 24.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

A—1,341 feet MSL.

B—1,451 feet MSL.

C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

3. What is the antidote when a pilot has the hazardous attitude of “Invulnerability?”

A—It cannot be that bad.

B—It could happen to me.

C—It will not happen to me.

Answer: B.

Learning Statement: Recall Aeronautical Decision Making (ADM)-hazardous attitudes.

4. How long does the Airworthiness Certificate of an aircraft remain valid?

A—As long as the aircraft has a current Registration Certificate.

B—Indefinitely, unless the aircraft suffers major damage.

C—As long as the aircraft is maintained and operated as required by Federal Aviation Regulations.

Answer: C.

Learning Statement: Recall regulations-airworthiness certificates/requirements/responsibilities.

5. What is pressure altitude?

A—The indicated altitude corrected for position and installation error.

B—The altitude indicated when the barometric pressure scale is set to 29.92.

C—The indicated altitude corrected for nonstandard temperature and pressure.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE SPORT PILOT—LIGHTER-THAN-AIR (BALLOON) (SPB)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Wind
PLT025 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight	Theories in Lift Production
PLT059 AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Reports	METAR
PLT064 Aeronautical Information Manual		
Airport Operations	Uncontrolled	Information Sources
Airspace	Controlled	Class D
Airspace	Special Use	Military Training Routes
Airspace	Special Use	Wildlife Refuges
Airspace	Uncontrolled	Class E
Sectional Aeronautical Chart		
Airspace	Controlled	Class D
Navigation	Pilotage	Aeronautical Chart
Navigation	Pilotage	Airspace
PLT075 AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Reports	Weather Depiction Charts
PLT078 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage	Checkpoints
PLT103 AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Hazardous Attitude
PLT104 Aeronautical Information Manual		
Human Factors	Aero-medical	Alcohol
PLT116 Aeronautical Information Manual		
Airport Operations	Lighting	Rotating Beacon
Flight Operations	CFIT	Antenna Towers
Publications	AIM	Contents
www.faa.gov-Search for ACs		
Publications	Advisory Circulars	Acquisition
PLT124 Balloon Flying Handbook, FAA-H-8083-11		
Aircraft Systems	Powerplant	Performance
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects	High Humidity
PLT127 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Density Altitude	Altitude Effects
Flight Operations	Landing	Performance
PLT161 14 CFR 61		
Airspace	Controlled	Class A
Aeronautical Information Manual		
Airspace	Controlled	Class C
PLT162 14 CFR 91		
Airspace	Controlled	Class B

PLT163			
14 CFR 61			
Airspace	Uncontrolled		Class G
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Airspace	Cloud Clearances/Visibility		Class E
PLT177			
Balloon Flying Handbook, FAA-H-8083-11			
Flight Operations	Maneuvers		Basic
PLT179			
Balloon Flying Handbook, FAA-H-8083-11			
Weight and Balance	Aircraft Loading		Definitions
PLT184			
Balloon Flying Handbook, FAA-H-8083-11			
Flight Operations	Landing		Passenger Briefings and Management
PLT192			
AC 00-6 Aviation Weather			
Weather	Hazardous		Turbulence
PLT194			
AC 90-48 Pilots` Role in Collision Avoidance			
Flight Operations	Collision Avoidance		Effective Scanning
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Flight Operations	Collision Avoidance		Vision in Flight
PLT200			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Dead Reckoning		Measurement of Direction
PLT205			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.17 Alcohol and Drugs
PLT206			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Atmospheric Effects		Density Altitude
PLT235			
Balloon Flying Handbook, FAA-H-8083-11			
Aerodynamics	Principles of Flight		Balloon
PLT254			
Balloon Flying Handbook, FAA-H-8083-11			
Aircraft Systems	Fuel/Oil		Liquid Propane
PLT267			
Balloon Flying Handbook, FAA-H-8083-11			
Aerodynamics	Principles of Flight		Physics
PLT281			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Publications	Airport Facility Directory		Revisions
PLT291			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Area Forecast
PLT301			
AC 00-6 Aviation Weather			
Weather	Meteorology		Temperature Inversions
PLT305			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Flight Instruments		Altimeter
PLT328			
Aircraft Weight and Balance Handbook, FAA-H-8083-1			
Weight and Balance	Aircraft Loading		Weight
PLT332			
Aeronautical Information Manual			
Human Factors	Aero-medical		Hyperventilation
PLT335			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Pilotage		Calculations
PLT340			
Aviation Instructor Handbook, FAA-H-8083-9			
Flight Operations	Positive Aircraft Control		Exchange of Control
PLT366			
49 CFR 830			
Regulations	NTSB Part 830		Reporting

PLT374 14 CFR 91 Regulations	14 CFR Part 91	Section 91.403 Maintenance General
PLT376 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Airspace	Other	Temporary Flight Restriction
PLT387 14 CFR 61 Regulations	14 CFR Part 61	Section 61.60 Change of Address
PLT430 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Pilotage	Checkpoints
PLT443 14 CFR 1 Regulations	14 CFR Part 61	Section 61.315 Sport Pilot Privileges/Limitations
14 CFR 61 Regulations	14 CFR Part 61	Section 61.315 Sport Pilot Privileges/Limitations
PLT444 14 CFR 91 Regulations	14 CFR Part 91	Section 91.107 Safety Belts/Shoulder Harness
PLT445 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Flight Operations	Checklist Usage	Pilot
PLT463 14 CFR 61 Regulations	14 CFR Part 61	Section 61.15 Offenses Involving Alcohol/Drugs
PLT475 AC 00-6 Aviation Weather Weather	Hazardous	Squall Lines
PLT509 Aeronautical Information Manual Flight Operations	Wake Turbulence	Strength
PLT511 AC 00-6 Aviation Weather Weather	Meteorology	Air Masses
Weather	Meteorology	Pressure
PLT514 Aeronautical Information Manual Weather	Aeronautical Weather Forecasts	Pre-flight Briefing
PLT518 AC 00-6 Aviation Weather Weather	Hazardous	Wind shear

**Sport Pilot—Glider (SPI)
Sample Questions**

SPORT PILOT—GLIDER (SPI)

1. The purpose of Military Training Routes, charted as VFR Military Training Routes (VR) and IFR Military Training Routes (IR) on sectional charts, is to ensure the greatest practical level of safety for all flight operations and to allow the military to conduct

A—low altitude, high-speed training.

B—radar instrument training.

C—air-to-air refueling training.

Answer: A.

Learning Statement: Recall aircraft general knowledge/publications/AIM/navigational aids.

2. (Refer to figure 24.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

A—1,341 feet MSL.

B—1,451 feet MSL.

C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

3. What is the antidote when a pilot has the hazardous attitude of “Invulnerability?”

A—It cannot be that bad.

B—It could happen to me.

C—It will not happen to me.

Answer: B.

Learning Statement: Recall Aeronautical Decision Making (ADM)-hazardous attitudes.

4. How long does the Airworthiness Certificate of an aircraft remain valid?

A—As long as the aircraft has a current Registration Certificate.

B—Indefinitely, unless the aircraft suffers major damage.

C—As long as the aircraft is maintained and operated as required by Federal Aviation Regulations.

Answer: C.

Learning Statement: Recall regulations-airworthiness certificates/requirements/responsibilities.

5. What is pressure altitude?

A—The indicated altitude corrected for position and installation error.

B—The altitude indicated when the barometric pressure scale is set to 29.92.

C—The indicated altitude corrected for nonstandard temperature and pressure.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE SPORT PILOT—GLIDER (SPI)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Wind
PLT023 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments	Altimeter
PLT026 AC 00-6 Aviation Weather		
Weather	Aeronautical Weather Reports	Ceiling
PLT039 Aeronautical Information Manual		
Airport Operations	Traffic Patterns	Direction
PLT064 Aeronautical Information Manual		
Airport Operations	Communications	CTAF
Airport Operations	Uncontrolled	Communications
Airport Operations	Uncontrolled	Information Sources
Airspace	Controlled	Class B
Airspace	Special Use	Military Training Routes
Airspace	Special Use	Restricted Airspace
Airspace	Uncontrolled	Class E
Sectional Aeronautical Chart		
Airspace	Controlled	Class C
Publications	Aeronautical Charts	Sectionals
PLT074 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Load Factor	Limitations
PLT077 Aeronautical Information Manual		
Airport Operations	Marking/Signs	Displaced Threshold
Airport Operations	Traffic Patterns	Direction
PLT098 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	Environmental Factors	Altitude
PLT103 AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Hazardous Attitude
PLT116 Aeronautical Information Manual		
Air Traffic Control Procedures	Communications	Self-Announce
Airport Operations	Marking/Signs	Runway
Airspace	Special Use	Wildlife Refuges
Flight Operations	CFIT	Antenna Towers
Flight Operations	Emergency Procedures	Assistance
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage	Checkpoints
PLT122 Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Checklist Usage	Pilot
PLT124 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects	High Humidity
PLT131 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Flight Characteristics	Takeoff Roll
Aerodynamics	Performance	Ground Effect

PLT134			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Flight Operations	Takeoff		Performance
PLT146			
Aeronautical Information Manual			
Airport Operations	Traffic Patterns		Departure
PLT161			
14 CFR 91			
Airport Operations	Traffic Patterns		Direction
Aeronautical Information Manual			
Airspace	Controlled		Class C
Airspace	Controlled		Class D
PLT162			
14 CFR 91			
Airspace	Controlled		Class B
PLT163			
14 CFR 61			
Airspace	Uncontrolled		Class G
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.155 Basic VFR Weather Minimums
PLT170			
Aeronautical Information Manual			
Air Traffic Control Procedures	Arrival		Visual Clearing Procedures
PLT192			
AC 00-6 Aviation Weather			
Weather	Hazardous		Turbulence
PLT194			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Flight Operations	Collision Avoidance		Vision in Flight
PLT200			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Dead Reckoning		Calculations
Navigation	Dead Reckoning		Measurement of Direction
PLT206			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Atmospheric Effects		Density Altitude
PLT207			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Electrical		Total Failure
PLT291			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Area Forecast
PLT313			
Aircraft Weight and Balance Handbook, FAA-H-8083-1			
Weight and Balance	Center of Gravity		Limits
PLT323			
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Flight Service Stations
PLT328			
Aircraft Weight and Balance Handbook, FAA-H-8083-1			
Weight and Balance	Aircraft Loading		Weight
PLT334			
Aeronautical Information Manual			
Human Factors	Aero-medical		Spatial Disorientation
PLT335			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Pilotage		Calculations
PLT337			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Pitot/Static		Blockage
PLT366			
49 CFR 830			
Regulations	NTSB Part 830		Reporting
PLT384			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.107 Safety Belts/Shoulder Harness

PLT387 14 CFR 61 Regulations	14 CFR Part 61	Section 61.60 Change of Address
PLT430 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Pilotage	Checkpoints
PLT443 Aeronautical Information Manual Regulations	14 CFR Part 91	Section 91.3 Pilot-in-Command
PLT444 Aircraft Weight and Balance Handbook, FAA-H-8083-1 Weight and Balance	Center of Gravity	Records
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Weight and Balance	Aircraft Loading	Management
PLT445 14 CFR 91 Regulations	14 CFR Part 91	Section 91.103 Pre-flight Action
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Flight Operations	Checklist Usage	Pilot
PLT463 14 CFR 61 Regulations	14 CFR Part 61	Section 61.15 Offenses Involving Alcohol/Drugs
PLT465 14 CFR 91 Regulations	14 CFR Part 91	Section 91.107 Safety Belts/Shoulder Harness
PLT501 AC 00-6 Aviation Weather Weather	Hazardous	Turbulence
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Load Factor	Rough Air
PLT509 Aeronautical Information Manual Flight Operations	Wake Turbulence	Movement
PLT514 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Weather	Aeronautical Weather Forecasts	Pre-flight Briefing
PLT518 AC 00-6 Aviation Weather Weather	Hazardous	Wind shear

**Sport Pilot—Lighter-Than-Air (Airship) (SPL)
Sample Questions**

SPORT PILOT—LIGHTER-THAN-AIR (AIRSHIP) (SPL)

1. The purpose of Military Training Routes, charted as VFR Military Training Routes (VR) and IFR Military Training Routes (IR) on sectional charts, is to ensure the greatest practical level of safety for all flight operations and to allow the military to conduct

- A—low altitude, high-speed training.
- B—radar instrument training.
- C—air-to-air refueling training.

Answer: A.

Learning Statement: Recall aircraft general knowledge/publications/AIM/navigational aids.

2. (Refer to figure 24.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

- A—1,341 feet MSL.
- B—1,451 feet MSL.
- C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

3. What is the antidote when a pilot has the hazardous attitude of “Invulnerability?”

- A—It cannot be that bad.
- B—It could happen to me.
- C—It will not happen to me.

Answer: B.

Learning Statement: Recall Aeronautical Decision Making (ADM)-hazardous attitudes.

4. How long does the Airworthiness Certificate of an aircraft remain valid?

- A—As long as the aircraft has a current Registration Certificate.
- B—Indefinitely, unless the aircraft suffers major damage.
- C—As long as the aircraft is maintained and operated as required by Federal Aviation Regulations.

Answer: C.

Learning Statement: Recall regulations-airworthiness certificates/requirements/responsibilities.

5. What is pressure altitude?

A—The indicated altitude corrected for position and installation error.

B—The altitude indicated when the barometric pressure scale is set to 29.92.

C—The indicated altitude corrected for nonstandard temperature and pressure.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE SPORT PILOT—LIGHTER-THAN-AIR (AIRSHIP) (SPL)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Wind
PLT022		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Risk Management
PLT023		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments	Altimeter
PLT064		
Aeronautical Information Manual		
Airport Operations	Communications	CTAF
Airport Operations	Traffic Patterns	Communications Procedures
Airport Operations	Uncontrolled	Communications
Airspace	Controlled	Class B
Airspace	Controlled	Class D
Airspace	Special Use	MOA
Airspace	Uncontrolled	Class E
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage	Calculations
Navigation	Pilotage	Checkpoints
Sectional Aeronautical Chart		
Airspace	Controlled	Class D
Publications	Aeronautical Charts	Sectionals
PLT077		
Aeronautical Information Manual		
Airport Operations	Traffic Patterns	Direction
Airport Operations	Traffic Patterns	Runway Selection
PLT078		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage	Checkpoints
Publications	Airport Facility Directory	Legend
PLT103		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	ADM	Hazardous Attitude
PLT104		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Risk Management
PLT116		
Aeronautical Information Manual		
Air Traffic Control Procedures	Communications	Clearance
Airport Operations	Lighting	Rotating Beacon
Flight Operations	CFIT	Antenna Towers
PLT122		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Flight Operations	Normal Procedures	Checklists
PLT124		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects	High Humidity
PLT125		
Airship Aerodynamics Technical Manual		
Flight Operations	Landing	Descent
PLT127		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Density Altitude	Altitude Effects
Flight Operations	Landing	Performance

PLT141			
	Aeronautical Information Manual		
Airport Operations	Marking/Signs		Vehicle lanes
PLT146			
	AC 90-48 Pilots` Role in Collision Avoidance		
Flight Operations	Collision Avoidance		Effective Scanning
PLT152			
	Airship Aerodynamics Technical Manual		
Aerodynamics	Principles of Flight		Airship
Weight and Balance	Aircraft Loading		Airship
PLT159			
	Airship Aerodynamics Technical Manual		
Aerodynamics	Principles of Flight		Airship
PLT161			
	14 CFR 61		
Airspace	Controlled		Class A
PLT163			
	14 CFR 61		
Airspace	Cloud Clearances/Visibility		Class G
	14 CFR 91		
Regulations	14 CFR Part 91		Section 91.155 Basic VFR Weather Minimums
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Airspace	Cloud Clearances/Visibility		Class E
PLT194			
	AC 90-48 Pilots` Role in Collision Avoidance		
Flight Operations	Collision Avoidance		Effective Scanning
PLT200			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning		Measurement of Direction
PLT204			
	Aeronautical Information Manual		
Air Traffic Control Procedures	Communications		Self-Announce
PLT206			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects		Density Altitude
PLT208			
	Airship Aerodynamics Technical Manual		
Flight Operations	Emergency Procedures		In-flight
PLT215			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage		Compass
PLT226			
	AC 00-6 Aviation Weather		
Weather	Meteorology		Fog
PLT239			
	Airship Aerodynamics Technical Manual		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT251			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Fuel/Oil		Fuel Contamination
PLT271			
	AC 60-22 Aeronautical Decision Making		
Human Factors	ADM		Judgment
PLT290			
	Aeronautical Information Manual		
Weather	Aeronautical Weather Reports		SIGMETS
PLT305			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments		Altimeter
PLT323			
	Aeronautical Information Manual		
Air Traffic Control Procedures	Communications		Flight Service Stations
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Publications	NOTAMS		Contents
PLT324			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Powerplant		Oil System

PLT328			
Aircraft Weight and Balance Handbook, FAA-H-8083-1			
Weight and Balance	Aircraft Loading		Weight
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Weight and Balance	Aircraft Loading		Definitions
PLT335			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Pilotage		Calculations
Navigation	Pilotage		Cross-country
PLT366			
49 CFR 830			
Regulations	NTSB Part 830		Reporting
PLT376			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Airspace	Other		Temporary Flight Restriction
PLT387			
14 CFR 61			
Regulations	14 CFR Part 61		Section 61.60 Change of Address
PLT403			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.3 Pilot-in-Command
PLT443			
14 CFR 1			
Regulations	14 CFR Part 61		Section 61.315 Sport Pilot Privileges/Limitations
PLT444			
14 CFR 91			
Air Traffic Control Procedures	Communications		Instructions
PLT445			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.103 Pre-flight Action
PLT463			
14 CFR 61			
Regulations	14 CFR Part 61		Section 61.15 Offenses Involving Alcohol/Drugs
PLT495			
AC 00-6 Aviation Weather			
Weather	Hazardous		Thunderstorms
Weather	Meteorology		Thunderstorms
PLT509			
Aeronautical Information Manual			
Flight Operations	Wake Turbulence		Creation
PLT514			
Aeronautical Information Manual			
Weather	Aeronautical Weather Forecasts		Pre-flight Briefing

**Sport Pilot—Powered Parachute (SPP)
Sample Questions**

SPORT PILOT—POWERED PARACHUTE (SPP)

1. The purpose of Military Training Routes, charted as VFR Military Training Routes (VR) and IFR Military Training Routes (IR) on sectional charts, is to ensure the greatest practical level of safety for all flight operations and to allow the military to conduct

- A—low altitude, high-speed training.
- B—radar instrument training.
- C—air-to-air refueling training.

Answer: A.

Learning Statement: Recall aircraft general knowledge/publications/AIM/navigational aids.

2. (Refer to figure 24.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

- A—1,341 feet MSL.
- B—1,451 feet MSL.
- C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

3. What is the antidote when a pilot has the hazardous attitude of “Invulnerability?”

- A—It cannot be that bad.
- B—It could happen to me.
- C—It will not happen to me.

Answer: B.

Learning Statement: Recall Aeronautical Decision Making (ADM)-hazardous attitudes.

4. How long does the Airworthiness Certificate of an aircraft remain valid?

- A—As long as the aircraft has a current Registration Certificate.
- B—Indefinitely, unless the aircraft suffers major damage.
- C—As long as the aircraft is maintained and operated as required by Federal Aviation Regulations.

Answer: C.

Learning Statement: Recall regulations-airworthiness certificates/requirements/responsibilities.

5. What is pressure altitude?

A—The indicated altitude corrected for position and installation error.

B—The altitude indicated when the barometric pressure scale is set to 29.92.

C—The indicated altitude corrected for nonstandard temperature and pressure.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE SPORT PILOT—POWERED PARACHUTE (SPP)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Wind
PLT022		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Risk Management
PLT023		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments	Altimeter
PLT039		
Aeronautical Information Manual		
Airport Operations	Traffic Patterns	Direction
Airport Operations	Traffic Patterns	Runway Selection
PLT064		
Aeronautical Information Manual		
Airport Operations	Communications	CTAF
Airspace	Controlled	Class D
Airspace	Special Use	Restricted Airspace
Airspace	Uncontrolled	Class E
Regulations	14 CFR Part 91	Section 91.155 Basic VFR Weather Minimums
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage	Checkpoints
Sectional Aeronautical Chart		
Airspace	Controlled	Class D
Publications	Aeronautical Charts	Sectionals
PLT071		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Reports	Surface Analysis
PLT077		
Aeronautical Information Manual		
Airport Operations	Marking/Signs	Runway
Airport Operations	Traffic Patterns	Direction
PLT078		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage	Checkpoints
Publications	Airport Facility Directory	Legend
PLT081		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	Area Forecast
PLT103		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Hazardous Attitude
Human Factors	ADM	Operational Pitfalls
PLT114		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading	Weight
PLT116		
14 CFR 91		
Publications	Advisory Circulars	Subject Numbers
Aeronautical Information Manual		
Air Traffic Control Procedures	Communications	Self-Announce
Airport Operations	Lighting	Rotating Beacon
Flight Operations	CFIT	Antenna Towers
Flight Operations	Emergency Procedures	Assistance
PLT122		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Flight Operations	Normal Procedures	Checklists

PLT124			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Atmospheric Effects		High Humidity
PLT125			
Powered Parachute Flying Handbook FAA-H-8083-29			
Aerodynamics	Performance		Thrust Decrease
PLT127			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Flight Operations	Landing		Performance
PLT134			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Flight Operations	Takeoff		Performance
Powered Parachute Flying Handbook FAA-H-8083-29			
Aerodynamics	Flight Characteristics		Takeoff Roll
PLT141			
Aeronautical Information Manual			
Airport Operations	Marking/Signs		Mandatory Instruction Signs
Airport Operations	Marking/Signs		Runway
Airport Operations	Marking/Signs		Runway Incursions
PLT146			
AC 90-48 Pilots' Role in Collision Avoidance			
Flight Operations	Collision Avoidance		Effective Scanning
PLT161			
14 CFR 61			
Airspace	Controlled		Class A
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.155 Basic VFR Weather Minimums
Aeronautical Information Manual			
Airspace	Controlled		Class C
PLT162			
14 CFR 91			
Airport Operations	Traffic Patterns		Direction
Airspace	Controlled		Class B
Aeronautical Information Manual			
Airspace	Special Use		MOA
PLT163			
14 CFR 61			
Airspace	Cloud Clearances/Visibility		Class G
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.155 Basic VFR Weather Minimums
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Airspace	Cloud Clearances/Visibility		Class E
PLT170			
Aeronautical Information Manual			
Air Traffic Control Procedures	Arrival		Visual Clearing Procedures
PLT192			
AC 00-6 Aviation Weather			
Weather	Meteorology		Clouds
PLT194			
AC 90-48 Pilots' Role in Collision Avoidance			
Flight Operations	Collision Avoidance		Effective Scanning
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Flight Operations	Collision Avoidance		Maneuvers
PLT200			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Dead Reckoning		Calculations
Navigation	Dead Reckoning		Measurement of Direction
PLT204			
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Self-Announce
PLT206			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Atmospheric Effects		Density Altitude
PLT207			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Electrical		Charging Systems

PLT222	Powered Parachute Flying Handbook FAA-H-8083-29		
Aerodynamics	Flight Characteristics		Takeoff Roll
PLT241	Powered Parachute Flying Handbook FAA-H-8083-29		
Aerodynamics	Performance		Thrust Increase
PLT242	Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading		Weight
PLT247	Powered Parachute Flying Handbook FAA-H-8083-29		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT251	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Fuel/Oil		Fuel Contamination
PLT271	AC 60-22 Aeronautical Decision Making		
Human Factors	ADM		Judgment
PLT281	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Publications	Airport Facility Directory		Airport Information
PLT288	AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Terminal Area Forecast
PLT290	Aeronautical Information Manual		
Weather	Aeronautical Weather Reports		SIGMETS
PLT291	AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Area Forecast
PLT305	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments		Altimeter
PLT313	Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading		Weight
PLT316	Aeronautical Information Manual		
Weather	Aeronautical Weather Forecasts		Pre-flight Briefing
PLT323	Aeronautical Information Manual		
Air Traffic Control Procedures	Communications		Flight Service Stations
PLT328	Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading		Weight
PLT332	Aeronautical Information Manual		
Human Factors	Aero-medical		Hyperventilation
PLT335	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage		Calculations
Navigation	Pilotage		Cross-country
PLT346	Powered Parachute Flying Handbook FAA-H-8083-29		
Aircraft Systems	Flight Controls-Primary/Secondary		Steering Bars
PLT366	49 CFR 830		
Regulations	NTSB Part 830		Reporting
PLT376	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Airspace	Other		Temporary Flight Restriction
PLT387	14 CFR 61		
Regulations	14 CFR Part 61		Section 61.60 Change of Address
PLT399	14 CFR 61		
Regulations	14 CFR Part 61		Section 61.3 Certificates/Ratings

PLT443 14 CFR 61 Regulations	14 CFR Part 61	Section 61.315 Sport Pilot Privileges/Limitations
PLT444 14 CFR 91 Regulations	14 CFR Part 91	Section 91.3 Pilot-in-Command
	14 CFR Part 91	Section 91.7 Civil Aircraft Airworthiness
Aircraft Weight and Balance Handbook, FAA-H-8083-1 Weight and Balance	Center of Gravity	Records
PLT463 14 CFR 61 Regulations	14 CFR Part 61	Section 61.15 Offenses Involving Alcohol/Drugs
PLT495 AC 00-6 Aviation Weather Weather	Hazardous	Thunderstorms
PLT509 Aeronautical Information Manual Airport Operations	Wake Turbulence	Movement
Flight Operations	Wake Turbulence	Movement
Flight Operations	Wake Turbulence	Strength
PLT511 AC 00-6 Aviation Weather Weather	Meteorology	Air Masses
PLT512 AC 00-6 Aviation Weather Weather	Meteorology	Moisture
PLT514 Aeronautical Information Manual Weather	Aeronautical Weather Forecasts	Pre-flight Briefing
PLT516 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT518 AC 00-6 Aviation Weather Weather	Hazardous	Wind shear

**Sport Pilot—Weight-Shift-Control (SPW)
Sample Questions**

SPORT PILOT—WEIGHT-SHIFT-CONTROL (SPW)

1. The purpose of Military Training Routes, charted as VFR Military Training Routes (VR) and IFR Military Training Routes (IR) on sectional charts, is to ensure the greatest practical level of safety for all flight operations and to allow the military to conduct

A—low altitude, high-speed training.

B—radar instrument training.

C—air-to-air refueling training.

Answer: A.

Learning Statement: Recall aircraft general knowledge/publications/AIM/navigational aids.

2. (Refer to figure 24.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

A—1,341 feet MSL.

B—1,451 feet MSL.

C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

3. What is the antidote when a pilot has the hazardous attitude of “Invulnerability?”

A—It cannot be that bad.

B—It could happen to me.

C—It will not happen to me.

Answer: B.

Learning Statement: Recall Aeronautical Decision Making (ADM)-hazardous attitudes.

4. How long does the Airworthiness Certificate of an aircraft remain valid?

A—As long as the aircraft has a current Registration Certificate.

B—Indefinitely, unless the aircraft suffers major damage.

C—As long as the aircraft is maintained and operated as required by Federal Aviation Regulations.

Answer: C.

Learning Statement: Recall regulations-airworthiness certificates/requirements/responsibilities.

5. What is pressure altitude?

A—The indicated altitude corrected for position and installation error.

B—The altitude indicated when the barometric pressure scale is set to 29.92.

C—The indicated altitude corrected for nonstandard temperature and pressure.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE SPORT PILOT—WEIGHT-SHIFT-CONTROL (SPW) KNOWLEDGE TESTS

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Dead Reckoning	Wind
PLT023 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Flight Instruments	Altimeter
PLT025 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Theories in Lift Production
PLT039 Aeronautical Information Manual Airport Operations	Traffic Patterns	Direction
Airport Operations	Traffic Patterns	Runway Selection
PLT059 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Reports	METAR
PLT064 Aeronautical Information Manual Airport Operations	Communications	CTAF
Airport Operations	Uncontrolled	Communications
Airport Operations	Uncontrolled	Information Sources
Airspace	Controlled	Class B
Airspace	Controlled	Class D
Airspace	Special Use	MOA
Airspace	Special Use	Wildlife Refuges
Airspace	Uncontrolled	Class E
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Pilotage	Checkpoints
Sectional Aeronautical Chart Publications	Aeronautical Charts	Sectionals
PLT077 Aeronautical Information Manual Airport Operations	Traffic Patterns	Runway Selection
PLT094 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Airfoil Design
PLT097 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Human Factors	Aero-medical	Carbon Monoxide Poisoning
PLT103 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Hazardous Attitude
PLT104 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Risk Management
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Human Factors	ADM	Human Behavior
PLT116 Aeronautical Information Manual Air Traffic Control Procedures	Communications	Self-Announce
Air Traffic Control Procedures	Departure	VFR Flight Plans
Airport Operations	Lighting	PAPI
Airport Operations	Lighting	PVASI
Airport Operations	Lighting	Rotating Beacon
Airspace	Other	Military Training Routes
Airspace	Special Use	Wildlife Refuges
Flight Operations	CFIT	Antenna Towers
Flight Operations	Emergency Procedures	Assistance

www.faa.gov-Search for ACs		
Publications	Advisory Circulars	Applicability
PLT122		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Flight Operations	Normal Procedures	Checklists
PLT124		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects	High Humidity
PLT127		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Flight Operations	Landing	Performance
PLT131		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Performance	Ground Effect
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking/Signs	Runway Incursions
Publications	AIM	Contents
PLT146		
AC 90-48 Pilots` Role in Collision Avoidance		
Flight Operations	Collision Avoidance	Effective Scanning
PLT147		
Aeronautical Information Manual		
Airport Operations	Lighting	VASI
PLT161		
Aeronautical Information Manual		
Airspace	Controlled	Class C
Airspace	Controlled	Class D
PLT162		
14 CFR 91		
Airport Operations	Traffic Patterns	Direction
Aeronautical Information Manual		
Airspace	Special Use	MOA
PLT163		
14 CFR 61		
Airspace	Cloud Clearances/Visibility	Class G
Airspace	Uncontrolled	Class G
14 CFR 91		
Regulations	14 CFR Part 91	Section 91.155 Basic VFR Weather Minimums
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Airspace	Cloud Clearances/Visibility	Class E
PLT170		
Aeronautical Information Manual		
Air Traffic Control Procedures	Arrival	Visual Clearing Procedures
PLT194		
AC 90-48 Pilots` Role in Collision Avoidance		
Flight Operations	Collision Avoidance	Effective Scanning
PLT198		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Wind
PLT200		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Measurement of Direction
PLT206		
AC 00-6 Aviation Weather		
Weather	Meteorology	Pressure
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects	Density Altitude
PLT215		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage	Compass
PLT242		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading	Weight

PLT251			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Fuel/Oil		Fuel Contamination
PLT281			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Publications	Airport Facility Directory		Airport Information
PLT289			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weather	Aeronautical Weather Reports		Weather Depiction Charts
PLT290			
	Aeronautical Information Manual		
Weather	Aeronautical Weather Forecasts		AIRMETS
Weather	Aeronautical Weather Reports		SIGMETS
PLT313			
	Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading		Weight
PLT323			
	Aeronautical Information Manual		
Air Traffic Control Procedures	Communications		Flight Service Stations
Publications	NOTAMS		FDC NOTAMS
PLT332			
	Aeronautical Information Manual		
Human Factors	Aero-medical		Hyperventilation
PLT335			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage		Calculations
Navigation	Pilotage		Cross-country
PLT346			
	Weight-Shift Control Aircraft Flying Handbook, FAA-H-8083-5		
Aircraft Systems	Flight Controls-Primary/Secondary		Stability & Moments
PLT348			
	Weight-Shift Control Aircraft Flying Handbook, FAA-H-8083-5		
Aerodynamics	Stability/Control		Turns
PLT351			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Propeller		Density Altitude
PLT366			
	49 CFR 830		
Regulations	NTSB Part 830		Reporting
PLT378			
	14 CFR 39		
Regulations	14 CFR Part 39		Section 39.3 Define Airworthiness Directives
PLT387			
	14 CFR 61		
Regulations	14 CFR Part 61		Section 61.60 Change of Address
PLT430			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage		Checkpoints
PLT431			
	14 CFR 91		
Regulations	14 CFR Part 91		Section 91.111 Operating Near Other Aircraft
PLT441			
	14 CFR 91		
Flight Operations	Personal Equipment		Seat Belts
PLT443			
	14 CFR 1		
Regulations	14 CFR Part 61		Section 61.315 Sport Pilot Privileges/Limitations
PLT444			
	49 CFR 830		
Regulations	NTSB Part 830		Reporting
	Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Center of Gravity		Records
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weight and Balance	Aircraft Loading		Management

PLT445 14 CFR 91 Regulations	14 CFR Part 91	Section 91.103 Pre-flight Action
PLT463 14 CFR 61 Regulations	14 CFR Part 61	Section 61.15 Offenses Involving Alcohol/Drugs
PLT464 14 CFR 91 Regulations	14 CFR Part 91	Section 91.107 Safety Belts/Shoulder Harness
PLT475 AC 00-6 Aviation Weather Weather	Hazardous	Squall Lines
Weather	Hazardous	Thunderstorms
PLT477 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Stall/Spins	Angle of Attack
PLT478 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Powerplant	Pre-ignition
PLT509 Aeronautical Information Manual Airport Operations	Wake Turbulence	Creation
Airport Operations	Wake Turbulence	Movement
Flight Operations	Wake Turbulence	Creation
Flight Operations	Wake Turbulence	Movement
PLT512 AC 00-6 Aviation Weather Weather	Meteorology	Moisture
Weather	Meteorology	Temperature
PLT514 Aeronautical Information Manual Weather	Aeronautical Weather Forecasts	Pre-flight Briefing

**Sport Pilot—Gyroplane (SPY)
Sample Questions**

SPORT PILOT—GYROPLANE (SPY)

1. The purpose of Military Training Routes, charted as VFR Military Training Routes (VR) and IFR Military Training Routes (IR) on sectional charts, is to ensure the greatest practical level of safety for all flight operations and to allow the military to conduct

A—low altitude, high-speed training.

B—radar instrument training.

C—air-to-air refueling training.

Answer: A.

Learning Statement: Recall aircraft general knowledge/publications/AIM/navigational aids.

2. (Refer to figure 24.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

A—1,341 feet MSL.

B—1,451 feet MSL.

C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

3. What is the antidote when a pilot has the hazardous attitude of “Invulnerability?”

A—It cannot be that bad.

B—It could happen to me.

C—It will not happen to me.

Answer: B.

Learning Statement: Recall Aeronautical Decision Making (ADM)-hazardous attitudes.

4. How long does the Airworthiness Certificate of an aircraft remain valid?

A—As long as the aircraft has a current Registration Certificate.

B—Indefinitely, unless the aircraft suffers major damage.

C—As long as the aircraft is maintained and operated as required by Federal Aviation Regulations.

Answer: C.

Learning Statement: Recall regulations-airworthiness certificates/requirements/responsibilities.

5. What is pressure altitude?

A—The indicated altitude corrected for position and installation error.

B—The altitude indicated when the barometric pressure scale is set to 29.92.

C—The indicated altitude corrected for nonstandard temperature and pressure.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE SPORT PILOT—GYROPLANE (SPY) KNOWLEDGE TEST

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT012		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Wind
PLT021		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Center of Gravity	Computations
PLT022		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Definition
PLT023		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments	Altimeter
PLT025		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight	Theories in Lift Production
PLT026		
AC 00-6 Aviation Weather		
Weather	Aeronautical Weather Reports	Ceiling
PLT039		
Aeronautical Information Manual		
Airport Operations	Traffic Patterns	Direction
PLT064		
14 CFR 91		
Regulations	14 CFR Part 91	Section 91.155 Basic VFR Weather Minimums
Aeronautical Information Manual		
Airport Operations	Communications	CTAF
Airport Operations	Uncontrolled	Communications
Airport Operations	Uncontrolled	Information Sources
Airspace	Special Use	Military Training Routes
Airspace	Special Use	Restricted Airspace
Airspace	Uncontrolled	Class E
Sectional Aeronautical Chart		
Airspace	Controlled	Class C
Publications	Aeronautical Charts	Sectionals
PLT078		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Publications	Airport Facility Directory	Legend
PLT098		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	Environmental Factors	Altitude
PLT103		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Hazardous Attitude
Human Factors	ADM	Operational Pitfalls
PLT114		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Aircraft Loading	Weight
PLT115		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Powerplant	Combustion

PLT116		
Aeronautical Information Manual		
Air Traffic Control Procedures	Communications	Self-Announce
Airport Operations	Marking/Signs	Runway
Airport Operations	Marking/Signs	Runway Incursions
Airspace	Special Use	Wildlife Refuges
Flight Operations	Emergency Procedures	Assistance
Publications	AIM	Contents
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage	Checkpoints
PLT122		
Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Checklist Usage	Pilot
PLT124		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects	High Humidity
PLT127		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Flight Operations	Landing	Performance
PLT134		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Flight Operations	Takeoff	Performance
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking/Signs	Runway Incursions
PLT146		
AC 90-48 Pilots' Role in Collision Avoidance		
Flight Operations	Collision Avoidance	Effective Scanning
Aeronautical Information Manual		
Airport Operations	Traffic Patterns	Departure
PLT161		
Aeronautical Information Manual		
Airspace	Controlled	Class D
PLT162		
14 CFR 91		
Airspace	Controlled	Class B
Airspace	Controlled	Class C
PLT163		
14 CFR 61		
Airspace	Cloud Clearances/Visibility	Class G
Airspace	Uncontrolled	Class G
14 CFR 91		
Regulations	14 CFR Part 91	Section 91.155 Basic VFR Weather Minimums
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Airspace	Cloud Clearances/Visibility	Class E
PLT170		
Aeronautical Information Manual		
Air Traffic Control Procedures	Arrival	Visual Clearing Procedures
PLT194		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Flight Operations	Collision Avoidance	Maneuvers
Flight Operations	Collision Avoidance	Vision in Flight
PLT198		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Wind
PLT200		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
Navigation	Dead Reckoning	Measurement of Direction
PLT204		
Aeronautical Information Manual		
Air Traffic Control Procedures	Communications	Self-Announce

PLT206			
AC 00-6 Aviation Weather			
Weather	Meteorology		Pressure
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Atmospheric Effects		Density Altitude
PLT207			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Electrical		Total Failure
PLT226			
AC 00-6 Aviation Weather			
Weather	Meteorology		Fog
PLT247			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT251			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Fuel/Oil		Fuel Contamination
PLT281			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Publications	Airport Facility Directory		Airport Information
Publications	Airport Facility Directory		Revisions
PLT285			
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aircraft Performance	Charts		Height/Velocity
PLT290			
Aeronautical Information Manual			
Weather	Aeronautical Weather Reports		SIGMETS
PLT291			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Area Forecast
PLT313			
Aircraft Weight and Balance Handbook, FAA-H-8083-1			
Weight and Balance	Aircraft Loading		Weight
PLT323			
Aeronautical Information Manual			
Air Traffic Control Procedures	Communications		Flight Service Stations
Publications	NOTAMS		FDC NOTAMs
PLT328			
Aircraft Weight and Balance Handbook, FAA-H-8083-1			
Weight and Balance	Aircraft Loading		Weight
PLT332			
Aeronautical Information Manual			
Human Factors	Aero-medical		Hyperventilation
PLT335			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Pilotage		Calculations
PLT337			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Pitot/Static		Blockage
PLT342			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Powerplant		Cooling
PLT351			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Propeller		Density Altitude
PLT366			
49 CFR 830			
Regulations	NTSB Part 830		Reporting
PLT384			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.107 Safety Belts/Shoulder Harness
PLT399			
14 CFR 61			
Regulations	14 CFR Part 61		Section 61.3 Certificates/Ratings
PLT400			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.203 Aircraft Certifications Required

PLT403			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.3 Pilot-in-Command
PLT414			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.113 Right-of-Way Rules
PLT430			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.119 Minimum Safe Altitudes
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Pilotage		Checkpoints
PLT441			
14 CFR 91			
Flight Operations	Personal Equipment		Seat Belts
PLT443			
14 CFR 1			
Regulations	14 CFR Part 61		Section 61.315 Sport Pilot Privileges/Limitations
Aeronautical Information Manual			
Regulations	14 CFR Part 91		Section 91.3 Pilot-in-Command
PLT444			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Weight and Balance	Aircraft Loading		Management
PLT445			
14 CFR 91			
Regulations	14 CFR Part 91		Section 91.103 Pre-flight Action
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Flight Operations	Checklist Usage		Pilot
PLT463			
14 CFR 61			
Regulations	14 CFR Part 61		Section 61.15 Offenses Involving Alcohol/Drugs
PLT475			
AC 00-6 Aviation Weather			
Weather	Hazardous		Squall Lines
PLT477			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Stall/Spins		Angle of Attack
PLT495			
AC 00-6 Aviation Weather			
Weather	Hazardous		Thunderstorms
Weather	Meteorology		Thunderstorms
PLT501			
AC 00-6 Aviation Weather			
Weather	Meteorology		Turbulence
PLT509			
Aeronautical Information Manual			
Airport Operations	Wake Turbulence		Creation
Airport Operations	Wake Turbulence		Movement
Flight Operations	Wake Turbulence		Creation
Flight Operations	Wake Turbulence		Strength
PLT511			
AC 00-6 Aviation Weather			
Weather	Meteorology		Wind
PLT514			
Aeronautical Information Manual			
Weather	Aeronautical Weather Forecasts		Pre-flight Briefing
PLT516			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT518			
AC 00-6 Aviation Weather			
Weather	Hazardous		Wind shear

**Flight Instructor Sport Pilot—Airplane (SIA)
Sample Questions**

FLIGHT INSTRUCTOR SPORT PILOT—AIRPLANE (SIA)

1. Aspect ratio of a wing is defined as the ratio of the

- A—wingspan to the wing root.
- B—wingspan to the mean chord.
- C—square of the chord to the wingspan.

Answer: B.

Learning Statement: Recall forces acting on aircraft-aspect ratio.

2. In a twin-engine airplane, the single-engine service ceiling is the maximum density altitude at which VYSE will produce

- A—50 feet per minute rate of climb.
- B—100 feet per minute rate of climb.
- C—500 feet per minute rate of climb.

Answer: A.

Learning Statement: Recall aircraft performance-instrument/markings/airspeed/definitions/indications

3. What effect does high-density altitude have on aircraft performance?

- A—It increases engine performance.
- B—It reduces climb performance.
- C—It increases takeoff performance.

Answer: B.

Learning Statement: Recall aircraft performance-density altitude.

4. Which combination of atmospheric conditions will reduce aircraft takeoff and climb performance?

- A—Low temperature, low relative humidity, and low-density altitude.
- B—High temperature, low relative humidity, and low-density altitude.
- C—High temperature, high relative humidity, and high-density altitude.

Answer: C.

Learning Statement: Recall aircraft performance-atmospheric effects.

5. What is true altitude?

- A—The vertical distance of the aircraft above sea level.
- B—The vertical distance of the aircraft above the surface.
- C—The height above the standard datum plane.

Answer: A.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR SPORT PILOT—AIRPLANE (SIA)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT001 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Stability/Control	Positive Stability
PLT004 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Charts	Climb/Cruise Performance Data
PLT006 Airplane Flying Handbook, FAA-H-8083-3A Flight Operations	Emergency Procedures	Determining Glide Distance
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Charts	Glide Distance
PLT012 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Dead Reckoning	Calculations
Navigation	Pilotage	Calculations
PLT013 Airplane Flying Handbook, FAA-H-8083-3A Flight Operations	Landing	Determining Crosswind Component
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Charts	Determining Crosswind Component
PLT018 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Load Factor	Effect of Bank Angle on Stall Speed
Aerodynamics	Principles of Flight	Pitch Attitude
PLT021 Aircraft Weight and Balance Handbook, FAA-H-8083-1 Weight and Balance	Center of Gravity	Formulas
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Weight and Balance	Aircraft Loading	Weight & Balance Diagram
PLT022 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Hazardous Attitude
Human Factors	ADM	Risk Management
PLT023 AC 00-6 Aviation Weather Weather	Meteorology	Density Altitude
PLT034 14 CFR 1 Regulations	14 CFR Part 1	Definition
PLT040 Aeronautical Information Manual Airspace	Controlled	Class C
PLT044 Aeronautical Information Manual Airspace	Procedures	Communications
PLT046 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Drag
PLT051 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Forecasts	Data Interpretation
PLT052 14 CFR 91 Regulations	Airspace Classes	Class E Airspace
PLT059 Aeronautical Information Manual Weather	Aeronautical Weather Reports	Aviation Routine Weather Reports (METAR)
PLT061 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Reports	Pilot Reports

PLT063			
	AC 00-45 Aviation Weather Services		
Weather	Charts/Maps		Radar Summary Charts
PLT064			
	Aeronautical Information Manual		
Airspace	Controlled		Class B
Airspace	Controlled		Class C
Airspace	Controlled		Class D
Airspace	Controlled		Class E
	Sectional Aeronautical Chart		
Navigation	Pilotage		Aeronautical Charts
PLT066			
	AC 00-45 Aviation Weather Services		
Weather	Charts/Maps		Severe Weather Outlook Charts
PLT068			
	AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Data Interpretation
PLT074			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Load Factor		Bank Angle vs. Gravity Load
Aerodynamics	Load Factor		Effect of Bank Angle on Stall Speed
Aerodynamics	Load Factor		Velocity/Load Factor Chart
PLT078			
	Airport/Facility Directory		
Airport Operations	Runway Conditions		Gradient
Airport Operations	Tower Controlled		Tower Hours of Operation
Navigation	Pilotage		Airport/Facility Directory
Publications	Airport Facility Directory		Directory Legend
PLT081			
	AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Data Dissemination
PLT098			
	Aeronautical Information Manual		
Human Factors	Aero-medical Factors		Fitness for Flight
PLT101			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Pilotage		Aeronautical Charts
Navigation	Pilotage		Measurement of Direction
PLT103			
	AC 60-22 Aeronautical Decision Making		
Human Factors	ADM		Hazardous Attitude
PLT112			
	Airplane Flying Handbook, FAA-H-8083-3A		
Airport Operations	Taxiing		Control Positioning
Flight Operations	Cruise		Coordinated Use of Controls
Flight Operations	Maneuvers		Advanced
PLT113			
	14 CFR 23		
Regulations	14 CFR Part 1		Certification Regulation Criteria
PLT116			
	Aeronautical Information Manual		
Airport Operations	Communications		Flight Service Stations
Airport Operations	Wake Turbulence		Wake Turbulence Avoidance
Navigation	Pilotage		Change in Proposed Departure Time
PLT118			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments		Heading Indicator
PLT120			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Load Factor		Maneuvering Speed
PLT124			
	Aeronautical Information Manual		
Aircraft Performance	Atmospheric Effects		Determining Density Altitude
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Computations		Determining Density Altitude

PLT127		
Airplane Flying Handbook, FAA-H-8083-3A		
Aircraft Performance	Atmospheric Effects	Determining Density Altitude
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aircraft Performance	Density Altitude	Performance Detractor
PLT131		
Airplane Flying Handbook, FAA-H-8083-3A		
Aircraft Performance	Atmospheric Effects	Ground Effect
PLT132		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Limitations	Flight Instruments
PLT141		
Aeronautical Information Manual		
Airport Operations	Marking/Signs	Entry Prohibited
Airport Operations	Marking/Signs	Hold Position Markings
Airport Operations	Marking/Signs	Hold Short
Airport Operations	Marking/Signs	Runway
Airport Operations	Marking/Signs	Taxiway
Airport Operations	Marking/Signs	Taxiway to Runway Marking
PLT146		
Aeronautical Information Manual		
Airport Operations	Traffic Patterns	Segmented Circle
PLT147		
Aeronautical Information Manual		
Airport Operations	Lighting	VASI
PLT150		
Aeronautical Information Manual		
Airport Operations	Traffic Patterns	Traffic Pattern Entry
PLT161		
14 CFR 91		
Regulations	Airspace Classes	Limitations
Regulations	Airspace Classes	VFR Requirements
Aeronautical Information Manual		
Airspace	Controlled	Class C
Airspace	Controlled	Class D
Airspace	Controlled	Class E
Airspace	Controlled	Communications
PLT162		
Aeronautical Information Manual		
Airspace	Uncontrolled	Class D Airspace
PLT165		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Pitot/Static	Altimeter
PLT168		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight	Lift
Aerodynamics	Principles of Flight	Stalls
PLT170		
Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Approach	Go Around
Flight Operations	Approach	Short-Field Approach/Landing
Flight Operations	Landing	Crosswind Approach/Landing
Flight Operations	Landing	Roundout (Flare)
PLT194		
AC 90-48 Pilots' Role in Collision Avoidance		
Airport Operations	Traffic Patterns	Collision Avoidance
PLT195		
AC 90-48 Pilots' Role in Collision Avoidance		
Flight Operations	Collision Avoidance	Pilot's Role
PLT196		
Aeronautical Information Manual		
Airport Operations	Tower Controlled	ATIS

PLT198			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning		Calculations
PLT206			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects		Determining Density Altitude
PLT208			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning		Calculations
PLT214			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Load Factor		Maneuvering Speed
PLT215			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments		Acceleration Error
Aircraft Systems	Flight Instruments		Compass
Aircraft Systems	Flight Instruments		Deviation Error
PLT219			
	Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Maneuvers		Basic
Flight Operations	Maneuvers		Ground Reference
Flight Operations	Maneuvers		Turns
PLT221			
	Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Landing		Normal Approach/Landing
PLT222			
	Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Emergency Procedures		Approach/Landing
PLT226			
	AC 00-6 Aviation Weather		
Weather	Meteorology		Fog
PLT232			
	AC 60-22 Aeronautical Decision Making		
Human Factors	ADM		Hazardous Attitude
PLT241			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT244			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Stability/Control		Design Characteristics
PLT246			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Principles of Flight		Forces Acting on Aircraft
PLT250			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Fuel/Oil		Refueling Procedures
PLT251			
	AC 20-43 Aircraft Fuel Control		
Aircraft Systems	Fuel/Oil		Condensation
PLT253			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Fuel/Oil		Fuel System Pre-flight
Aircraft Systems	Powerplant		Mixture Control
PLT255			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Fuel/Oil		Grounding
PLT258			
	Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Maneuvers		Ground Reference
PLT261			
	AC 00-6 Aviation Weather		
Weather	Hazardous		Thunderstorms
PLT290			
	AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Data Dissemination

PLT291		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	Aviation Weather Forecasts
PLT305		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Controls/Secondary	Flaps
Aircraft Systems	Flight Controls/Secondary	Specific Type of Flap
PLT311		
Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Maneuvers	Turns
PLT314		
Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Center of Gravity	Formulas
Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Landing	Touchdown
PLT317		
Aeronautical Information Manual		
Weather	Meteorology	Microburst
PLT320		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Aeronautical Charts
Navigation	Dead Reckoning	Calculations
PLT323		
Aeronautical Information Manual		
Navigation	Pilotage	NOTAMS
PLT334		
Aeronautical Information Manual		
Human Factors	Aero-medical Factors	Spatial Disorientation
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Human Factors	Aero-medical Factors	Physiological
PLT337		
AC 91-43 Unreliable Airspeed Indication		
Aircraft Systems	Pitot/Static	Blockage
PLT343		
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Powerplant	Cooling
Aircraft Systems	Powerplant	Engine Cooling Systems
Aircraft Systems	Powerplant	Power
PLT351		
14 CFR 1		
Aircraft Systems	Propeller	Propeller Efficiency
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Propeller	Blade Angle
PLT370		
Aeronautical Information Manual		
Flight Operations	Collision Avoidance	Ground Track
PLT386		
14 CFR 61		
Regulations	Flight Instructor	Certificate Renewal/Duration
PLT393		
Aeronautical Information Manual		
Airspace	Communications	Restricted Airspace
Airspace	Special Use	MOA
Airspace	Special Use	Warning Areas
PLT395		
49 CFR 830		
Regulations	NTSB Part 830	Definition
PLT403		
14 CFR 91		
Regulations	14 CFR Part 91	Emergency-Priority
PLT405		
14 CFR 61		
Regulations	Flight Instructor	Application During Suspension
PLT409		
14 CFR 61		
Regulations	Eligibility	Flight Time

PLT411 14 CFR 61 Regulations	Flight Instructor	Endorsements
Regulations	Flight Instructor	Limitations
PLT413 14 CFR 91 Regulations	Fuel	Minimum Requirements
PLT416 49 CFR 830 Regulations	NTSB Part 830	Reporting
PLT418 14 CFR 61 Regulations	Student Pilot	Logging Training Time
PLT430 14 CFR 91 Regulations	Minimum Safe Altitude	Congested Areas
Regulations	Minimum Safe Altitude	Definition
Regulations	Minimum Safe Altitude	Other Than Congested Areas
PLT432 14 CFR 1 Regulations	14 CFR Part 1	Operational Control
PLT435 Aeronautical Information Manual Airport Operations	Communications	CTAF
Airport Operations	Communications	Unicom Frequency
PLT442 14 CFR 61 Regulations	Private Pilot	Currency Requirements
PLT455 Aeronautical Information Manual Navigation	Pilotage	Closing VFR/DVR Flight Plans
PLT457 14 CFR 61 Regulations	Student Pilot	Endorsements
PLT467 14 CFR 91 Regulations	Class B Airspace	Student Pilot Requirements
PLT473 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Flight Controls/Secondary	Flaps
PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Stability/Control	Basic Concepts of Stability
PLT492 AC 00-6 Aviation Weather Weather	Meteorology	Temperature
PLT495 AC 00-6 Aviation Weather Weather	Hazardous	Thunderstorms
PLT501 AC 00-6 Aviation Weather Weather	Meteorology	Unstable Air
PLT502 14 CFR 91 Regulations	14 CFR Part 91	ATC Light Signals
Regulations	14 CFR Part 91	Light Signal-Aircraft on Ground
Regulations	Universal Signals	Control Tower Signals
Aeronautical Information Manual Airport Operations	Tower Controlled	Light Signals
PLT503 Aeronautical Information Manual Human Factors	Aero-medical Factors	Alcohol
PLT509 Aeronautical Information Manual Airport Operations	Wake Turbulence	Wake Turbulence Avoidance

PLT516
[AC 00-6 Aviation Weather](#)
Weather

Meteorology

Atmospheric Pressure

PLT517
[AC 00-6 Aviation Weather](#)
Weather

Meteorology

Circulation

**Flight Instructor Sport Pilot—Balloon (SIB)
Sample Questions**

FLIGHT INSTRUCTOR SPORT PILOT—BALLOON (SIB)

1. A heavy airship, flying dynamically with air ballasted forward to overcome a climbing tendency and slowed down for weigh-off prior to landing, will be very nose heavy. This condition can be corrected prior to landing by

- A—ballasting airlift.
- B—discharging forward ballast.
- C—dumping fuel from the forward tanks.

Answer: A.

Learning Statement: Recall approach/landing/taxiing techniques.

2. Regarding lift as developed by a hot air balloon, which is true?

- A—The higher the temperature of the ambient air, the greater the lift for any given envelope temperature.
- B—The greater the difference between the temperature of the ambient air and the envelope air, the greater the lift.
- C—The smaller the difference between the temperature of the ambient air and the envelope air, the greater the lift.

Answer: A.

Learning Statement: Recall balloon gas/hot air–lift/false lift/characteristics.

3. (Refer to Figure 1.) What is the maximum altitude for a balloon if the gross weight is 1,060 pounds and standard temperature exists at all altitudes?

- A—4,000 feet.
- B—5,000 feet.
- C—7,000 feet.

Answer: C.

Learning Statement: Calculate weight and balance.

NOTE: See Figure 1 on page 69.

4. (Refer to Figure 2.) Determine the density altitude for these conditions:

- Altimeter setting: 29.25**
- Runway temperature: +81 °F**
- Airport elevation: 5,250 feet MSL**

- A—4,600 feet MSL.
- B—5,877 feet MSL.
- C—8,500 feet MSL.

Answer: C.

Learning Statement: Calculate aircraft performance-density altitude.

NOTE: See Figure 2 on page 69.

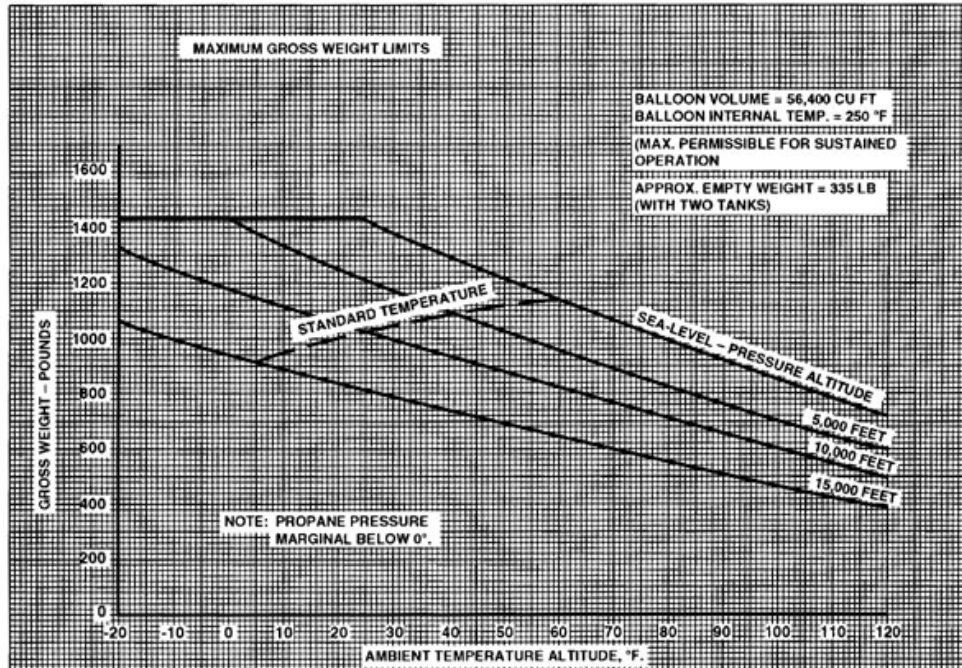
5. What effect does high-density altitude have on aircraft performance?

- A—It increases engine performance.
- B—It reduces climb performance.
- C—It increases takeoff performance.

Answer: B.

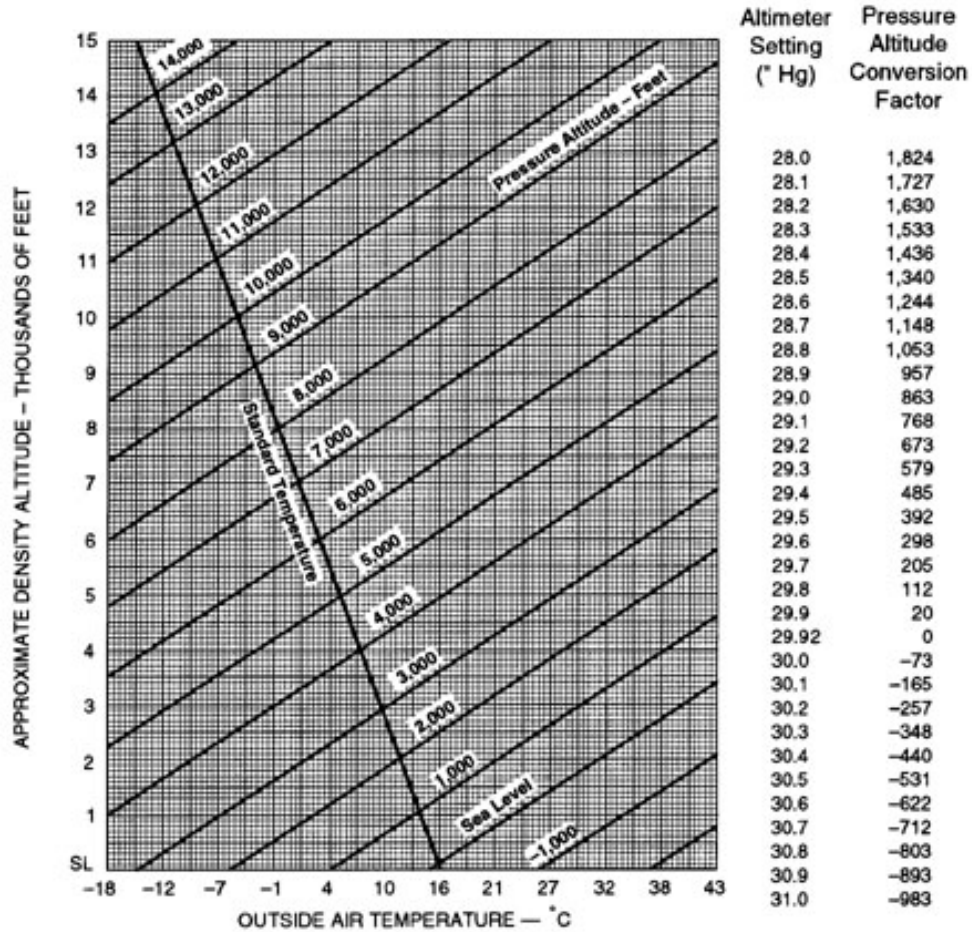
Learning Statement: Recall aircraft performance-density altitude.

GRAPHIC FOR SAMPLE QUESTION NUMBER 3: Figure 1.



GRAPHIC FOR SAMPLE QUESTION NUMBER 4: Figure 2.

DENSITY ALTITUDE CHART



LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR SPORT PILOT—BALLOON (SIB)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT021		
Balloon Flying Handbook, FAA-H-8083-11		
Aircraft Performance	Computations	Determining Maximum Altitude
Weight and Balance	Aircraft Loading	Limitations
PLT022		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Risk Elements
PLT030		
Balloon Flying Handbook, FAA-H-8083-11		
Aerodynamics	Principles of Flight	Balloon
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
Aerodynamics	Principles of Flight	Physics
PLT051		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	Data Interpretation
PLT059		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Reports	Aviation Routine Weather Reports (METAR)
PLT061		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Reports	Pilot Reports
PLT063		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Reports	Interpret
PLT064		
Aeronautical Information Manual		
Airspace	Controlled	Class C
Airspace	Controlled	Class D
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning	Calculations
Sectional Aeronautical Chart		
Airspace	Special Use	Alert Areas
Navigation	Dead Reckoning	Aeronautical Charts
Navigation	Pilotage	Aeronautical Charts
PLT066		
AC 00-45 Aviation Weather Services		
Weather	Charts/Maps	Severe Weather Outlook Charts
PLT068		
AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	Data Interpretation
PLT076		
AC 00-45 Aviation Weather Services		
Weather	Charts/Maps	Winds/Temperatures Aloft Charts
PLT078		
Airport/Facility Directory		
Airport Operations	Tower Controlled	Tower Hours of Operation
PLT103		
AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Hazardous Attitude
PLT113		
Balloon Flying Handbook, FAA-H-8083-11		
Flight Operations	Climb	Exceeding Limitations
PLT125		
Balloon Flying Handbook, FAA-H-8083-11		
Aircraft Performance	Atmospheric Effects	Balloon-Climb/Descent
PLT127		
Rotorcraft Flying Handbook, FAA-H-8083-21		
Aircraft Performance	Density Altitude	Performance Detractor

PLT159 <u>Airship Aerodynamics Technical Manual</u> Aerodynamics	Stability/Control	Super Heat
PLT161 <u>Aeronautical Information Manual</u> Airspace	Controlled	Class D
PLT162 <u>Aeronautical Information Manual</u> Airspace	Uncontrolled	Class D Airspace
PLT165 <u>Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</u> Aircraft Systems	Pitot/Static	Altimeter
PLT177 <u>Balloon Flying Handbook, FAA-H-8083-11</u> Aerodynamics	Flight Characteristics	Physics
Aircraft Systems	Fuel/Oil	Burner
<u>Balloon Flying Handbook, FAA-H-8083-11</u> Flight Operations	Cruise	Burn(s)
PLT179 <u>Balloon Flying Handbook, FAA-H-8083-11</u> Weight and Balance	Aircraft Loading	Definitions
PLT180 <u>Balloon Flying Handbook, FAA-H-8083-11</u> Aerodynamics	Flight Characteristics	Physics
Aerodynamics	Principles of Flight	Forces Acting on Aircraft
Aerodynamics	Principles of Flight	Physics
PLT183 <u>Balloon Flying Handbook, FAA-H-8083-11</u> Flight Operations	Maneuvers	Altitude Change
<u>Balloon Flying Handbook, FAA-H-8083-11</u> Flight Operations	Maneuvers	Balloon
PLT184 <u>Balloon Flying Handbook, FAA-H-8083-11</u> Flight Operations	Landing	Passenger Management
Flight Operations	Launch Procedures	Ground Crew/Launch/Balloon
Flight Operations	Recovery Procedures	Landing
<u>Balloon Flying Handbook, FAA-H-8083-11</u> Flight Operations	Emergency Procedures	Approach/Landing
Flight Operations	Landing	High-Wind Landing
Flight Operations	Landing	Landing
PLT192 <u>AC 00-6 Aviation Weather</u> Weather	Meteorology	Clouds
PLT195 <u>AC 90-48 Pilots' Role in Collision Avoidance</u> Flight Operations	Collision Avoidance	Pilot's Role
PLT206 <u>Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</u> Aircraft Performance	Atmospheric Effects	Determining Density Altitude
PLT208 <u>Balloon Digest-Balloon Federation of America</u> Flight Operations	Emergency Procedures	Balloon Fuel Management
<u>Balloon Flying Handbook, FAA-H-8083-11</u> Flight Operations	Emergency Procedures	Avoiding Power line(s)
<u>FAA Accident Prevention Program Bulletins</u> Flight Operations	Emergency Procedures	Awareness of Power lines
PLT215 <u>Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</u> Aircraft Systems	Flight Instruments	Deviation Error
PLT221 <u>Balloon Flying Handbook, FAA-H-8083-11</u> Flight Operations	Landing	Balloon
PLT232 <u>AC 60-22 Aeronautical Decision Making</u> Human Factors	ADM	Hazardous Attitude

PLT240			
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Weight and Balance	Center of Gravity		Fuel Weight per Gallon
PLT250			
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Aircraft Systems	Fuel/Oil		Refueling Procedures
PLT251			
<u>Balloon Digest-Balloon Federation of America</u>			
Aircraft Systems	Fuel/Oil		Fuel System Pre-flight
Aircraft Systems	Fuel/Oil		Fuel Type
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Aircraft Systems	Fuel/Oil		Fuel Type
Aircraft Systems	Fuel/Oil		Fuel Weight
PLT253			
<u>Balloon Digest-Balloon Federation of America</u>			
Aircraft Systems	Fuel/Oil		Bleed Fuel Lines
Aircraft Systems	Powerplant		Fuel Gauge
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Aerodynamics	Performance		Atmospheric Effects
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Aircraft Systems	Powerplant		Burner
Flight Operations	Normal Procedures		Burner Operation
PLT254			
<u>Balloon Digest-Balloon Federation of America</u>			
Aircraft Systems	Fuel/Oil		Vapor Bleed Valve
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Aircraft Systems	Fuel/Oil		Ambient Temperature
PLT267			
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Aerodynamics	Stability/Control		Weigh-Off
PLT291			
<u>AC 00-45 Aviation Weather Services</u>			
Weather	Aeronautical Weather Forecasts		Aviation Weather Forecasts
PLT301			
<u>AC 00-6 Aviation Weather</u>			
Weather	Meteorology		Temperature
PLT304			
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Aerodynamics	Principles of Flight		Pamphlet
Flight Operations	Launch Procedures		Ascent
Flight Operations	Launch Procedures		Balloon Launch Site
<u>Not yet assigned</u>			
Aerodynamics	Principles of Flight		Balloon
PLT313			
<u>Aircraft Weight and Balance Handbook, FAA-H-8083-1</u>			
Weight and Balance	Aircraft Loading		Definitions
PLT320			
<u>Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</u>			
Navigation	Dead Reckoning		Aeronautical Charts
PLT332			
<u>Aeronautical Information Manual</u>			
Human Factors	Aero-medical Factors		Physiological
PLT343			
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Aircraft Systems	Powerplant		Burner
PLT346			
<u>Balloon Flying Handbook, FAA-H-8083-11</u>			
Aircraft Systems	Flight Controls/Primary		Balloon
PLT353			
<u>AC 00-45 Aviation Weather Services</u>			
Weather	Aeronautical Weather Reports		Interpret
PLT372			
<u>14 CFR 91</u>			
Regulations	Aircraft Maintenance		Documentation

PLT373		
<u>Balloon Flying Handbook, FAA-H-8083-11</u>		
Aircraft Systems	Flight Controls/Primary	Balloon
Flight Operations	Launch Procedures	Limitations
PLT377		
<u>14 CFR 91</u>		
Regulations	Aircraft Maintenance	Documentation
PLT384		
<u>14 CFR 91</u>		
Regulations	Pilot-in-Command	Passenger Briefing/Seatbelt Usage
PLT393		
<u>Aeronautical Information Manual</u>		
Airspace	Communications	Restricted Airspace
PLT395		
<u>14 CFR 1</u>		
Regulations	14 CFR Part 1	Crewmember
<u>49 CFR 830</u>		
Regulations	NTSB Part 830	Definition
PLT411		
<u>14 CFR 61</u>		
Regulations	Flight Instructor	Limitations
PLT414		
<u>14 CFR 91</u>		
Regulations	14 CFR Part 91	Airship, R-O-W Rotorcraft
PLT416		
<u>49 CFR 830</u>		
Regulations	NTSB Part 830	Reporting
PLT425		
<u>14 CFR 91</u>		
Regulations	Aircraft Maintenance	Documentation
PLT430		
<u>14 CFR 91</u>		
Regulations	Minimum Safe Altitude	Congested Areas
PLT432		
<u>14 CFR 1</u>		
Regulations	14 CFR Part 1	Operational Control
PLT435		
<u>Aeronautical Information Manual</u>		
Airport Operations	Communications	Unicom Frequency
PLT444		
<u>14 CFR 91</u>		
Regulations	Pilot-in-Command	Emergency Responsibility
PLT448		
<u>14 CFR 61</u>		
Regulations	14 CFR Part 61	Suspended/Revoked
Regulations	Student Certificate	Limitations
PLT457		
<u>14 CFR 61</u>		
Regulations	14 CFR Part 61	Endorsement
Regulations	Student Certificate	Endorsements
PLT463		
<u>14 CFR 61</u>		
Regulations	FAA Certificates	Suspension/Revocation
<u>14 CFR 91</u>		
Regulations	Alcohol/Drugs	Crewmember Responsibility
PLT473		
<u>Balloon Flying Handbook, FAA-H-8083-11</u>		
Flight Operations	Normal Procedures	Tethering
<u>FAA Accident Prevention Program Bulletins</u>		
Aircraft Systems	Flight Controls/Secondary	Balloon
PLT482		
<u>14 CFR 61</u>		
Regulations	Flight Instructor	Student Evaluation
PLT495		
<u>AC 00-6 Aviation Weather</u>		
Weather	Hazardous	Thunderstorms

PLT501		
AC 00-6 Aviation Weather		
Weather	Hazardous	Mountain Flying
Weather	Meteorology	Unstable Air
PLT502		
Aeronautical Information Manual		
Airport Operations	Tower Controlled	Light Signals
PLT503		
Aeronautical Information Manual		
Human Factors	Aero-medical Factors	Alcohol
PLT510		
AC 00-6 Aviation Weather		
Weather	Meteorology	Circulation
PLT511		
AC 00-6 Aviation Weather		
Weather	Hazardous	Icing
PLT516		
AC 00-6 Aviation Weather		
Weather	Meteorology	Atmospheric Pressure
Weather	Meteorology	Circulation
PLT518		
AC 00-6 Aviation Weather		
Weather	Hazardous	Turbulence

**Flight Instructor Sport Pilot—Glider (SIG)
Sample Questions**

FLIGHT INSTRUCTOR SPORT PILOT—GLIDER (SIG)

1. Maximum gliding distance of an aircraft is obtained when

- A—parasite drag is the least.
- B—induced drag and parasite drag are equal.
- C—induced drag equals the coefficient of lift.

Answer: A.

Learning Statement: Recall forces acting on aircraft-airspeed/air density/lift/drag.

2. Aspect ratio of a wing is defined as the ratio of the

- A—wingspan to the wing root.
- B—wingspan to the mean chord.
- C—square of the chord to the wingspan.

Answer: B.

Learning Statement: Recall forces acting on aircraft-aspect ratio.

3. What is true altitude?

- A—The vertical distance of the aircraft above sea level.
- B—The vertical distance of the aircraft above the surface.
- C—The height above the standard datum plane.

Answer: A.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

4. The minimum age requirement for the applicant who is seeking a Student Pilot Certificate limited to glider operations is

- A—14 years.
- B—16 years.
- C—17 years.

Answer: A.

Learning Statement: Recall regulations-student pilot endorsements/other endorsements.

5. What normally results from excessive airspeed on final approach?

- A—Bouncing.
- B—Floating.
- C—Ballooning.

Answer: B.

Learning Statement: Recall approach/landing/taxiing techniques.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR SPORT PILOT—GLIDER (SIG)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT003 Glider Flying Handbook, FAA-H-8083-13		
Weight and Balance	Center of Gravity	Computing Ballast Amount
PLT012 Glider Flying Handbook, FAA-H-8083-13		
Aircraft Performance	Computations	Cross-Country Soaring
Flight Operations	Launch Procedures	Computations
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Determining Ground Roll
Navigation	Dead Reckoning	Calculations
PLT013 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Charts	Determining Crosswind Component
PLT018 Glider Flying Handbook, FAA-H-8083-13		
Aerodynamics	Principles of Flight	Load Factor
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Load Factor	Effect of Bank Angle on Stall Speed
PLT021 Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Center of Gravity	Computations
Glider Flying Handbook, FAA-H-8083-13		
Weight and Balance	Center of Gravity	Winch Tow
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Weight and Balance	Aircraft Loading	Weight & Balance Diagram
PLT022 AC 60-22 Aeronautical Decision Making		
Human Factors	ADM	Risk Management
PLT040 Aeronautical Information Manual		
Airspace	Controlled	Class C
PLT062 AC 00-6 Aviation Weather		
Weather	Charts/Maps	Thermal Soaring
PLT064 Aeronautical Information Manual		
Airspace	Controlled	Class B
Airspace	Controlled	Class C
Airspace	Controlled	Class D
Airspace	Controlled	Class E
Airspace	Controlled	Equipment Required
Sectional Aeronautical Chart		
Navigation	Dead Reckoning	Aeronautical Charts
Navigation	Pilotage	Aeronautical Charts
PLT068 AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	Data Interpretation
PLT070 AC 00-45 Aviation Weather Services		
Weather	Charts/Maps	Stability Chart
PLT074 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aerodynamics	Load Factor	Bank Angle vs. Gravity Load
PLT076 AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts	Data Dissemination

PLT078			
Airport/Facility Directory			
Airport Operations	Runway Conditions		Gradient
Airport Operations	Tower Controlled		Tower Hours of Operation
Navigation	Pilotage		Airport/Facility Directory
PLT081			
AC 00-45 Aviation Weather Services			
Weather	Aeronautical Weather Forecasts		Data Dissemination
PLT095			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Stability/Control		Phugoid Oscillations
PLT101			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Pilotage		Aeronautical Charts
Navigation	Pilotage		Measurement of Direction
PLT103			
AC 60-22 Aeronautical Decision Making			
Human Factors	ADM		Hazardous Attitude
PLT112			
Airplane Flying Handbook, FAA-H-8083-3A			
Airport Operations	Taxiing		Control Positioning
Airport Operations	Taxiing		Crosswind Taxi Procedures
PLT116			
Aeronautical Information Manual			
Navigation	Pilotage		Change in Proposed Departure Time
PLT120			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Load Factor		Maneuvering Speed
PLT124			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Computations		Determining Density Altitude
PLT127			
Airplane Flying Handbook, FAA-H-8083-3A			
Aircraft Performance	Atmospheric Effects		Determining Density Altitude
PLT141			
Aeronautical Information Manual			
Airport Operations	Marking/Signs		Hold Position
Airport Operations	Marking/Signs		Runway
Airport Operations	Marking/Signs		Taxiway
PLT146			
Aeronautical Information Manual			
Airport Operations	Traffic Patterns		Segmented Circle
PLT147			
Aeronautical Information Manual			
Airport Operations	Lighting		VASI
PLT161			
14 CFR 91			
Regulations	Airspace Classes		Limitations
Regulations	Class D Airspace		Communications
PLT162			
Aeronautical Information Manual			
Airspace	Uncontrolled		Class D Airspace
PLT163			
14 CFR 91			
Regulations	Airspace Classes		Minimum Flight Visibility
PLT168			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Principles of Flight		Stalls
PLT170			
Glider Flying Handbook, FAA-H-8083-13			
Flight Operations	Landing		Off-Field Landing
PLT194			
AC 90-48 Pilots' Role in Collision Avoidance			
Airport Operations	Traffic Patterns		Collision Avoidance
Aeronautical Information Manual			
Human Factors	Aero-medical Factors		Visual Illusions

PLT195			
	AC 90-48 Pilots` Role in Collision Avoidance		
Flight Operations	Collision Avoidance		Pilot's Role
	Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Approach		Normal Approach/Landing
PLT196			
	Aeronautical Information Manual		
Airport Operations	Tower Controlled		ATIS
PLT198			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning		Calculations
PLT206			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Performance	Atmospheric Effects		Determining Density Altitude
PLT214			
	Glider Flying Handbook, FAA-H-8083-13		
Aerodynamics	Principles of Flight		Airfoil
PLT215			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Instruments		Acceleration Error
Aircraft Systems	Flight Instruments		Compass
Aircraft Systems	Flight Instruments		Deviation Error
PLT219			
	Airplane Flying Handbook, FAA-H-8083-3A		
Flight Operations	Maneuvers		Basic
Flight Operations	Maneuvers		Stalls/Spins
Flight Operations	Maneuvers		Turns
PLT231			
	AC 60-22 Aeronautical Decision Making		
Human Factors	ADM		Stress Management
PLT253			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Fuel/Oil		Tanks
PLT257			
	Glider Flying Handbook, FAA-H-8083-13		
Aerodynamics	Principles of Flight		Lift/Drag Devices
PLT290			
	AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Data Dissemination
PLT291			
	AC 00-45 Aviation Weather Services		
Weather	Aeronautical Weather Forecasts		Data Dissemination
PLT304			
	Glider Flying Handbook, FAA-H-8083-13		
Flight Operations	Launch Procedures		CG Hook
Flight Operations	Launch Procedures		Computations
Flight Operations	Launch Procedures		Landing
PLT305			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Aircraft Systems	Flight Controls/Secondary		Flaps
PLT314			
	Aircraft Weight and Balance Handbook, FAA-H-8083-1		
Weight and Balance	Center of Gravity		Formulas
PLT320			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
Navigation	Dead Reckoning		Aeronautical Charts
PLT323			
	Aeronautical Information Manual		
Navigation	Pilotage		NOTAMS
PLT328			
	Glider Flying Handbook, FAA-H-8083-13		
Weight and Balance	Aircraft Loading		Ballast
PLT330			
	Aeronautical Information Manual		
Human Factors	Aero-medical Factors		Physiological

PLT334			
Aeronautical Information Manual			
Human Factors	Aero-medical Factors		Spatial Disorientation
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Human Factors	Aero-medical Factors		Physiological
PLT337			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Pitot/Static		Airspeed Indicator
PLT370			
Aeronautical Information Manual			
Flight Operations	Collision Avoidance		Ground Track
PLT374			
14 CFR 91			
Regulations	Aircraft Maintenance		Responsibilities
PLT386			
14 CFR 61			
Regulations	Flight Instructor		Certificate Renewal/Duration
PLT393			
Aeronautical Information Manual			
Airspace	Special Use		Military Training Route
Airspace	Special Use		MOA
Airspace	Special Use		Warning Areas
PLT403			
14 CFR 91			
Regulations	14 CFR Part 91		Emergency-Priority
PLT411			
14 CFR 61			
Regulations	Flight Instructor		Endorsements
Regulations	Flight Instructor		Limitations
PLT414			
14 CFR 91			
Regulations	Operational Procedures		Right-of-Way
PLT418			
14 CFR 61			
Regulations	Flight Instructor		Endorsements
PLT430			
14 CFR 91			
Regulations	Minimum Safe Altitude		Definition
PLT435			
Aeronautical Information Manual			
Airport Operations	Communications		CTAF
Airport Operations	Communications		Unicom Frequency
PLT448			
14 CFR 61			
Regulations	FAA Certificates		Change of Address
PLT455			
Aeronautical Information Manual			
Navigation	Pilotage		Closing VFR/DVR Flight Plans
PLT463			
14 CFR 91			
Regulations	Alcohol/Drugs		Crewmember Responsibility
PLT473			
Glider Flying Handbook, FAA-H-8083-13			
Aircraft Systems	Flight Controls/Secondary		Spoilers
PLT474			
AC 00-6 Aviation Weather			
Weather	Meteorology		Soaring Weather
Glider Flying Handbook, FAA-H-8083-13			
Flight Operations	Soaring Techniques		Turns
PLT494			
AC 00-6 Aviation Weather			
Weather	Charts/Maps		Thermal Soaring
Weather	Meteorology		Thermal Soaring
Glider Flying Handbook, FAA-H-8083-13			
Flight Operations	Soaring Techniques		Approach and Landing

PLT509

[Aeronautical Information Manual](#)

Airport Operations

Wake Turbulence

Wake Turbulence Avoidance

PLT510

[AC 00-6 Aviation Weather](#)

Weather

Meteorology

Thermal Soaring

PLT511

[AC 00-6 Aviation Weather](#)

Weather

Hazardous

Mountain Flying

**Flight Instructor Sport Pilot—Lighter-Than-Air (Airship) (SIL)
Sample Questions**

FLIGHT INSTRUCTOR SPORT PILOT—LIGHTER-THAN-AIR (AIRSHIP) (SIL)

1. What effect does high-density altitude have on aircraft performance?

- A—It increases engine performance.
- B—It reduces climb performance.
- C—It increases takeoff performance.

Answer: B.

Learning Statement: Recall aircraft performance-density altitude.

2. Which combination of atmospheric conditions will reduce aircraft takeoff and climb performance?

- A—Low temperature, low relative humidity, and low-density altitude.
- B—High temperature, low relative humidity, and low-density altitude.
- C—High temperature, high relative humidity, and high-density altitude.

Answer: C.

Learning Statement: Recall aircraft performance-atmospheric effects.

3. (Refer to Figure 3.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

- A—1,341 feet MSL.
- B—1,451 feet MSL.
- C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

NOTE: See Figure 3 on page 84.

4. What is true altitude?

- A—The vertical distance of the aircraft above sea level.
- B—The vertical distance of the aircraft above the surface.
- C—The height above the standard datum plane.

Answer: A.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

5. In which situation is indicated altitude the same as true altitude?

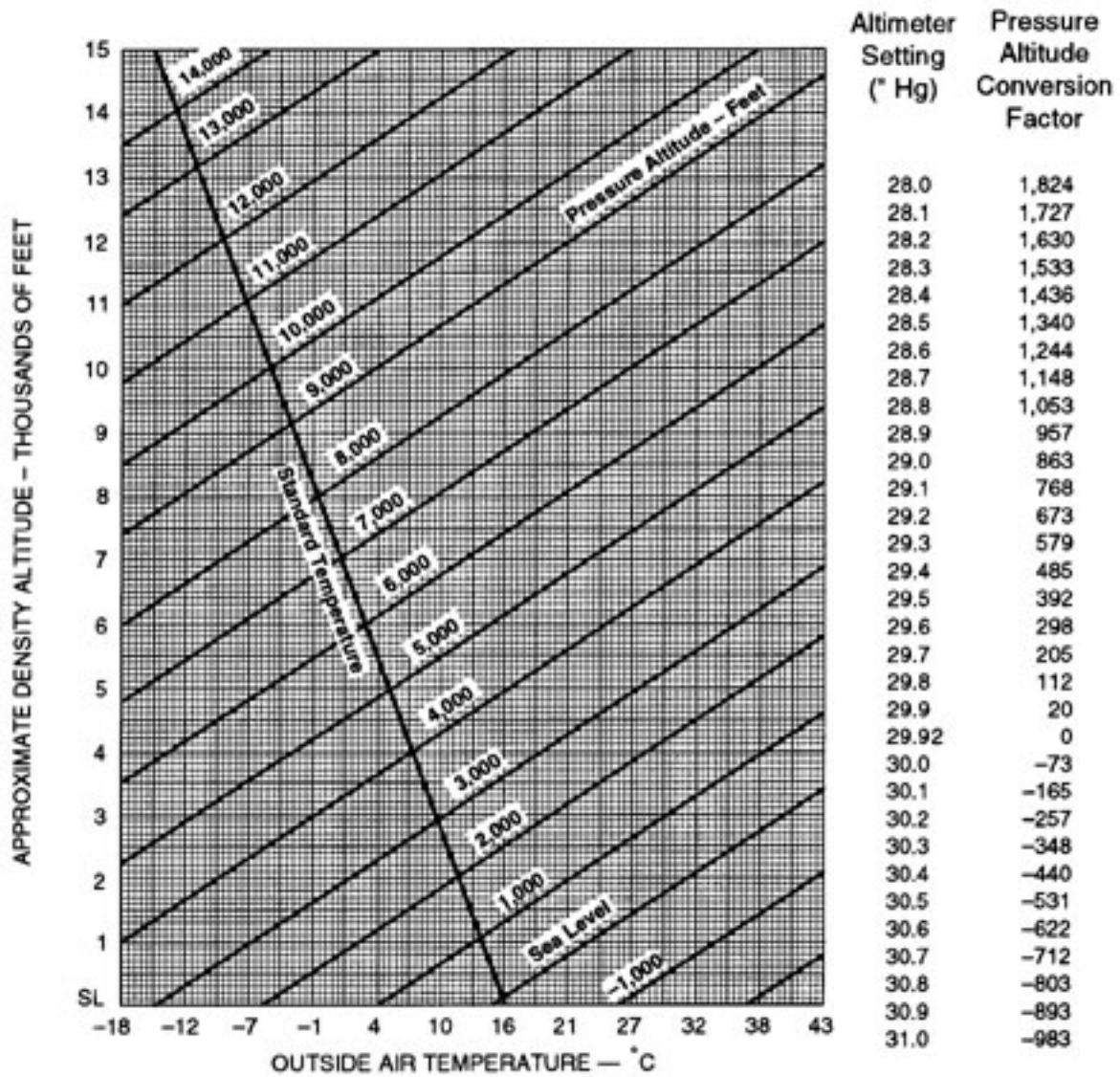
- A—If the altimeter has no mechanical error.
- B—When at sea level under standard atmospheric conditions.
- C—When at 18,000 feet MSL with the altimeter set at 29.92.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

GRAPHIC FOR SAMPLE QUESTION NUMBER 3: Figure 3.

DENSITY ALTITUDE CHART



LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR SPORT PILOT—LIGHTER-THAN-AIR (AIRSHIP) (SIL)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT005 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Computations	Determining Density Altitude
PLT022 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Hazardous Attitude
Human Factors	ADM	Risk Elements
Human Factors	ADM	Risk Management
PLT030 Airship Aerodynamics Technical Manual Aerodynamics	Principles of Flight	Airship
PLT040 Aeronautical Information Manual Airspace	Controlled	Class C
PLT044 Aeronautical Information Manual Airspace	Procedures	Communications
PLT052 14 CFR 91 Regulations	Airspace Classes	Class E Airspace
PLT061 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Reports	Pilot Reports
PLT063 AC 00-45 Aviation Weather Services Weather	Charts/Maps	Radar Summary Charts
PLT064 Aeronautical Information Manual Airspace	Controlled	Class B
Airspace	Controlled	Class C
Airspace	Controlled	Class D
Airspace	Controlled	Class E
Airspace	Special Use	Procedures
Sectional Aeronautical Chart Navigation	Dead Reckoning	Aeronautical Charts
Navigation	Pilotage	Aeronautical Charts
PLT066 AC 00-45 Aviation Weather Services Weather	Charts/Maps	Severe Weather Outlook Charts
PLT068 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Forecasts	Data Interpretation
PLT072 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Reports	Aviation Routine Weather Reports (METAR)
PLT078 Airport/Facility Directory Airport Operations	Tower Controlled	Tower Hours of Operation
Publications	Airport Facility Directory	Directory Legend
PLT081 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Forecasts	Aviation Weather Forecasts
Weather	Aeronautical Weather Forecasts	Data Dissemination
PLT098 Aeronautical Information Manual Human Factors	Aero-medical Factors	Fitness for Flight
PLT101 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Pilotage	Aeronautical Charts

PLT103 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Hazardous Attitude
PLT107 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Electrical	Generator/Alternator
PLT112 Airship Aerodynamics Technical Manual Flight Operations	Climb	Position of Dampers
PLT114 Airship Aerodynamics Technical Manual Aircraft Systems	Environmental	Load Distribution
PLT116 Aeronautical Information Manual Airport Operations	Communications	Flight Service Stations
Navigation	Pilotage	Change in Proposed Departure Time
PLT125 Airship Aerodynamics Technical Manual Flight Operations	Descent	Normal Descent/Airship
Flight Operations	Normal Procedures	Descent
PLT127 Airplane Flying Handbook, FAA-H-8083-3A Aircraft Performance	Atmospheric Effects	Determining Density Altitude
PLT152 Airship Aerodynamics Technical Manual Aerodynamics	Principles of Flight	Airship
Weight and Balance	Aircraft Loading	Ballast
PLT153 Airship Aerodynamics Technical Manual Aerodynamics	Flight Characteristics	Controllability
Aerodynamics	Principles of Flight	Airship
Aerodynamics	Principles of Flight	Buoyancy
Aerodynamics	Principles of Flight	Equilibrium Condition
Aerodynamics	Principles of Flight	Flight Characteristics
Aerodynamics	Principles of Flight	Light/Heavy Flight Unbalanced
Aerodynamics	Principles of Flight	Transfer Air Forward/Aft
Aerodynamics	Principles of Flight	Unbalanced Condition
Aerodynamics	Stability/Control	Flight Characteristics
Aircraft Systems	Powerplant	Check Valves in the Air scoops
PLT154 Airship Aerodynamics Technical Manual Aerodynamics	Stability/Control	Ground Weigh-off
PLT156 Airship Aerodynamics Technical Manual Aerodynamics	Principles of Flight	Maximum Headway
Flight Operations	Cruise	Maximum Headway/Airship
PLT157 Airship Aerodynamics Technical Manual Flight Operations	Climb	Position of Dampers
PLT158 Airship Aerodynamics Technical Manual Aircraft Systems	Flight Instruments	Buoyancy
PLT160 Airship Aerodynamics Technical Manual Aerodynamics	Principles of Flight	Physics
PLT161 14 CFR 91 Regulations	Airspace Classes	Limitations
Regulations	Airspace Classes	VFR Requirements
Regulations	Class D Airspace	Communications
Aeronautical Information Manual Airspace	Controlled	Class C
PLT162 Aeronautical Information Manual Airspace	Uncontrolled	Class D Airspace

PLT163			
14 CFR 91			
Regulations	Airspace Classes		Minimum Flight Visibility
PLT170			
Airship Aerodynamics Technical Manual			
Flight Operations	Landing		Heavy Airship/Landing
Flight Operations	Landing		Landing
PLT191			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Powerplant		Carburetor Systems
PLT195			
AC 90-48 Pilots' Role in Collision Avoidance			
Flight Operations	Collision Avoidance		Pilot's Role
PLT196			
Aeronautical Information Manual			
Airport Operations	Tower Controlled		ATIS
PLT198			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Dead Reckoning		Calculations
PLT206			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Atmospheric Effects		Determining Density Altitude
PLT207			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Electrical		Battery Acid Burns
PLT208			
Airship Aerodynamics Technical Manual			
Aircraft Systems	Flight Controls/Primary		Leak/Damage
Flight Operations	Emergency Procedures		Gas Envelope Rip/Damage/Airship
Flight Operations	Emergency Procedures		Total Loss of Engine(s) Power
Balloon Flying Handbook, FAA-H-8083-11			
Flight Operations	Emergency Procedures		Approach/Landing
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Dead Reckoning		Calculations
PLT214			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Load Factor		Maneuvering Speed
PLT215			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Flight Instruments		Acceleration Error
Aircraft Systems	Flight Instruments		Compass
Aircraft Systems	Flight Instruments		Deviation Error
PLT221			
Airship Aerodynamics Technical Manual			
Flight Operations	Landing		Heavy Landing/Airship/Calm Wind
Flight Operations	Launch Procedures		Takeoff
Flight Operations	Launch Procedures		Takeoff Procedure/Hazardous/Airship
PLT231			
AC 60-22 Aeronautical Decision Making			
Human Factors	ADM		Stress Management
PLT232			
AC 60-22 Aeronautical Decision Making			
Human Factors	ADM		Hazardous Attitude
Human Factors	ADM		Risk Management
PLT239			
Airship Aerodynamics Technical Manual			
Aerodynamics	Flight Characteristics		Physics
PLT249			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Powerplant		Mixture Control
PLT253			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Fuel/Oil		Tanks
Aircraft Systems	Powerplant		Fuel Injection System
Aircraft Systems	Powerplant		Mixture Control

PLT255 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Fuel/Oil	Grounding
PLT261 AC 00-6 Aviation Weather Weather	Hazardous	Thunderstorms
PLT271 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Risk Management
PLT278 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Pitot/Static	Airspeed Indicator
PLT290 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Forecasts	Data Dissemination
PLT291 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Forecasts	Aviation Weather Forecasts
PLT301 Airship Aerodynamics Technical Manual Aircraft Performance	Atmospheric Effects	Airship-Climb/Descent
PLT304 Airship Aerodynamics Technical Manual Flight Operations	Launch Procedures	Airship
PLT320 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Dead Reckoning	Aeronautical Charts
Navigation	Dead Reckoning	Calculations
PLT323 Aeronautical Information Manual Navigation	Pilotage	NOTAMS
PLT328 Airship Aerodynamics Technical Manual Weight and Balance	Aircraft Loading	Ballast
PLT332 Aeronautical Information Manual Human Factors	Aero-medical Factors	Physiological
PLT334 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Human Factors	Aero-medical Factors	Physiological
PLT337 AC 91-43 Unreliable Airspeed Indication Aircraft Systems	Pitot/Static	Blockage
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Pitot/Static	Airspeed Indicator
PLT343 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Powerplant	Cooling
Aircraft Systems	Powerplant	Power
PLT351 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Propeller	Effective Pitch
Aircraft Systems	Propeller	Geometric Pitch
Aircraft Systems	Propeller	Propeller Slippage
PLT366 49 CFR 830 Regulations	NTSB Part 830	Reporting
PLT386 14 CFR 61 Regulations	Flight Instructor	Certificate Renewal/Duration
PLT393 Aeronautical Information Manual Airspace	Communications	Restricted Airspace
Airspace	Special Use	Military Training Route
Airspace	Special Use	MOA
Airspace	Special Use	Warning Areas

PLT395 14 CFR 1 Regulations	14 CFR Part 1	Crewmember
49 CFR 830 Regulations	NTSB Part 830	Definition
PLT403 14 CFR 91 Regulations	14 CFR Part 91	Emergency-Priority
PLT407 14 CFR 61 Regulations	Flight Review	Proficiency Check
PLT409 14 CFR 61 Regulations	Eligibility	Flight Time
PLT411 14 CFR 61 Regulations	Flight Instructor	Endorsements
Regulations	Flight Instructor	Limitations
PLT414 14 CFR 91 Regulations	14 CFR Part 91	Airship, R-O-W Rotorcraft
Regulations	Operational Procedures	Right-of-Way
PLT416 49 CFR 830 Regulations	NTSB Part 830	Reporting
PLT418 14 CFR 61 Regulations	Flight Instructor	Endorsements
Regulations	Student Pilot	Logging Training Time
PLT425 14 CFR 91 Regulations	Aircraft Maintenance	Documentation
PLT430 14 CFR 91 Regulations	Minimum Safe Altitude	Congested Areas
Regulations	Minimum Safe Altitude	Definition
Regulations	Minimum Safe Altitude	Other Than Congested Areas
PLT432 14 CFR 1 Regulations	14 CFR Part 1	Operational Control
PLT435 Aeronautical Information Manual Airport Operations	Communications	CTAF
Airport Operations	Communications	Unicom Frequency
PLT442 14 CFR 61 Regulations	Flight Review	Currency Requirements
PLT444 14 CFR 91 Regulations	Pilot-in-Command	Emergency Responsibility
PLT448 14 CFR 61 Regulations	14 CFR Part 61	Change of Address
PLT455 Aeronautical Information Manual Navigation	Pilotage	Closing VFR/DVR Flight Plans
PLT457 14 CFR 61 Regulations	Student Certificate	Endorsements
Regulations	Student Pilot	Endorsements
PLT463 14 CFR 91 Regulations	Alcohol/Drugs	Crewmember Responsibility
PLT467 14 CFR 91 Regulations	Class B Airspace	Student Pilot Requirements

PLT473Airship Aerodynamics Technical Manual

Aircraft Systems	Flight Controls/Secondary	Air Damper Valves
Aircraft Systems	Flight Controls/Secondary	Ballonets
Aircraft Systems	Flight Controls/Secondary	Damper Valves

PLT478Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25

Aircraft Systems	Powerplant	Ignition
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PLT48214 CFR 61

Regulations	Flight Instructor	Student Evaluation
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PLT495AC 00-6 Aviation Weather

Weather	Hazardous	Thunderstorms
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PLT501AC 00-6 Aviation Weather

Weather	Hazardous	Mountain Flying
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PLT50214 CFR 91

Regulations	14 CFR Part 91	ATC Light Signals
Regulations	Universal Signals	Control Tower Signals

Aeronautical Information Manual

Airport Operations	Tower Controlled	Light Signals
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PLT509Aeronautical Information Manual

Airport Operations	Wake Turbulence	Wake Turbulence Avoidance
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PLT511AC 00-6 Aviation Weather

Weather	Hazardous	Icing
Weather	Meteorology	Air Masses

**Flight Instructor Sport Pilot—Powered Parachute (SIP)
Sample Questions**

FLIGHT INSTRUCTOR SPORT PILOT—POWERED PARACHUTE (SIP)

1. What effect does high-density altitude have on aircraft performance?

- A—It increases engine performance.
- B—It reduces climb performance.
- C—It increases takeoff performance.

Answer: B.

Learning Statement: Recall aircraft performance-density altitude.

2. Which combination of atmospheric conditions will reduce aircraft takeoff and climb performance?

- A—Low temperature, low relative humidity, and low-density altitude.
- B—High temperature, low relative humidity, and low-density altitude.
- C—High temperature, high relative humidity, and high-density altitude.

Answer: C.

Learning Statement: Recall aircraft performance-atmospheric effects.

3. (Refer to Figure 4.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

- A—1,341 feet MSL.
- B—1,451 feet MSL.
- C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

NOTE: See Figure 4 on page 93.

4. What is true altitude?

- A—The vertical distance of the aircraft above sea level.
- B—The vertical distance of the aircraft above the surface.
- C—The height above the standard datum plane.

Answer: A.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

5. In which situation is indicated altitude the same as true altitude?

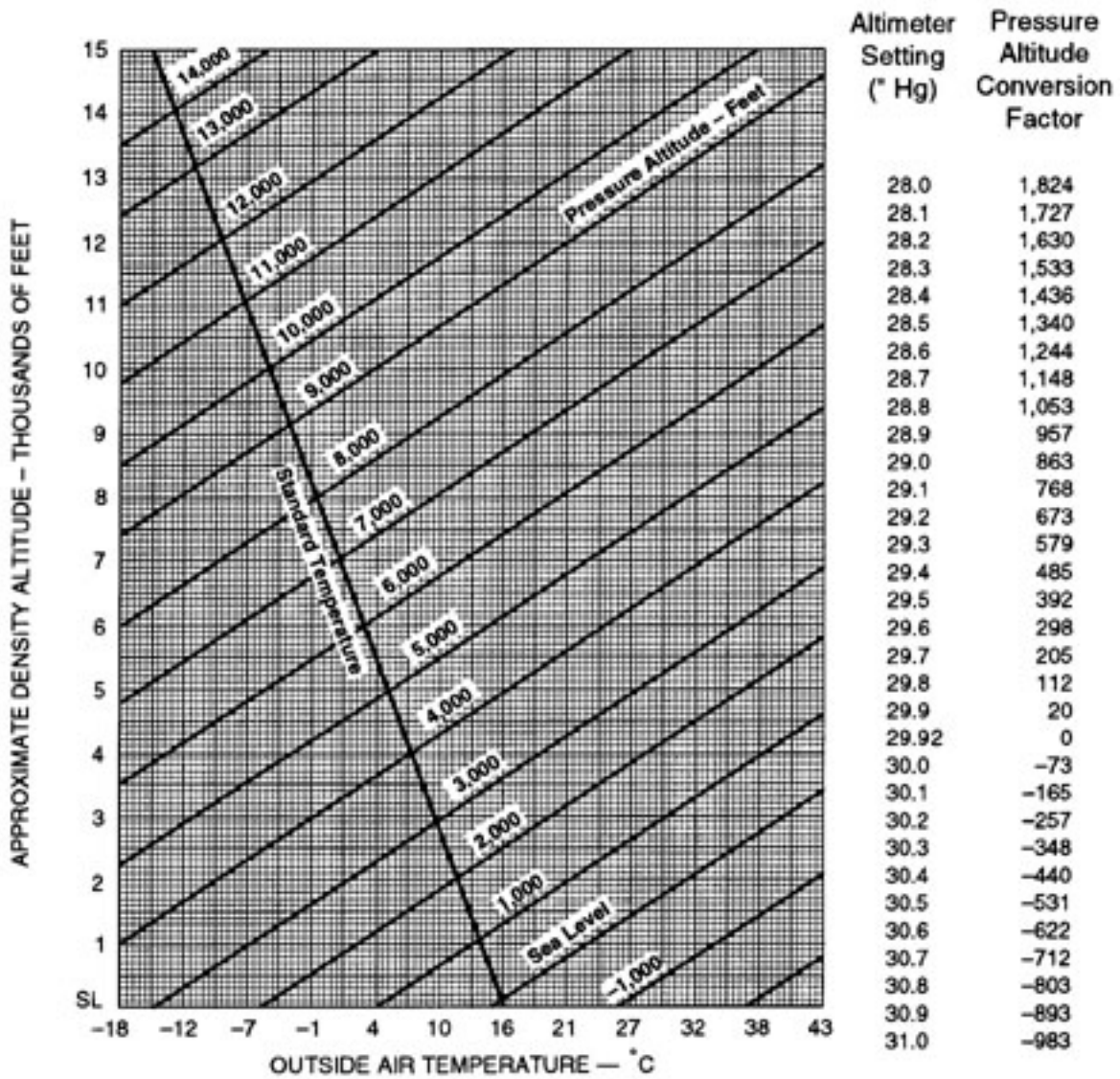
- A—If the altimeter has no mechanical error.
- B—When at sea level under standard atmospheric conditions.
- C—When at 18,000 feet MSL with the altimeter set at 29.92.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

GRAPHIC FOR SAMPLE QUESTION NUMBER 3: Figure 4.

DENSITY ALTITUDE CHART



LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR SPORT PILOT—POWERED PARACHUTE (SIP)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT005 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Computations	Determining Density Altitude
PLT012 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Charts	Determining Ground Roll
Aircraft Performance	Computations	Determining Landing Distance
Navigation	Dead Reckoning	Calculations
PLT021 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Weight and Balance	Aircraft Loading	Limitations
PLT022 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Hazardous Attitude
Human Factors	ADM	Risk Management
PLT025 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Physics
PLT040 Aeronautical Information Manual Airspace	Controlled	Class C
PLT041 AC 00-6 Aviation Weather Weather	Meteorology	Pressure
PLT044 Aeronautical Information Manual Airspace	Procedures	Communications
PLT051 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Forecasts	Data Interpretation
Weather	Charts/Maps	Convective Outlook Charts
PLT052 14 CFR 91 Regulations	Airspace Classes	Class E Airspace
PLT059 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Reports	Aviation Routine Weather Reports (METAR)
PLT061 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Reports	Pilot Reports
PLT063 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Reports	Interpret
Weather	Charts/Maps	Radar Summary Charts
PLT064 Aeronautical Information Manual Airspace	Controlled	Class B
Airspace	Controlled	Class C
Airspace	Controlled	Class D
Airspace	Controlled	Class E
Airspace	Special Use	Procedures
Sectional Aeronautical Chart Navigation	Dead Reckoning	Aeronautical Charts
Navigation	Pilotage	Aeronautical Charts
PLT078 Airport/Facility Directory Airport Operations	Tower Controlled	Tower Hours of Operation
Navigation	Pilotage	Airport/Facility Directory

PLT098			
Aeronautical Information Manual			
Human Factors	Aero-medical Factors		Fitness for Flight
PLT101			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Navigation	Pilotage		Aeronautical Charts
Navigation	Pilotage		Measurement of Direction
PLT103			
AC 60-22 Aeronautical Decision Making			
Human Factors	ADM		Hazardous Attitude
PLT114			
Powered Parachute Flying Handbook, FAA-H-8083-29			
Aircraft Systems	Structures		Center of Gravity Tube
Aircraft Systems	Structures		Fan Guard
Aircraft Systems	Structures		Parachute
PLT115			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Powerplant		Detonation
PLT116			
Aeronautical Information Manual			
Airport Operations	Wake Turbulence		Wake Turbulence Avoidance
Navigation	Pilotage		Change in Proposed Departure Time
PLT119			
Aeronautical Information Manual			
Flight Operations	Approach		Collision Avoidance
PLT124			
Aeronautical Information Manual			
Aircraft Performance	Atmospheric Effects		Determining Density Altitude
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Performance	Computations		Determining Density Altitude
PLT125			
Powered Parachute Flying Handbook, FAA-H-8083-29			
Aerodynamics	Airspeed		Thrust
PLT127			
Airplane Flying Handbook, FAA-H-8083-3A			
Aircraft Performance	Atmospheric Effects		Determining Density Altitude
Rotorcraft Flying Handbook, FAA-H-8083-21			
Aircraft Performance	Density Altitude		Performance Detractor
PLT131			
Airplane Flying Handbook, FAA-H-8083-3A			
Aircraft Performance	Atmospheric Effects		Ground Effect
PLT141			
Aeronautical Information Manual			
Airport Operations	Marking/Signs		Entrance to Runway
Airport Operations	Marking/Signs		Hold Position
Airport Operations	Marking/Signs		Runway
Airport Operations	Marking/Signs		Runway Exit Sign
Airport Operations	Marking/Signs		Taxiway
Airport Operations	Marking/Signs		Taxiway to Runway Marking
PLT146			
Aeronautical Information Manual			
Airport Operations	Traffic Patterns		Segmented Circle
PLT150			
Aeronautical Information Manual			
Airport Operations	Traffic Patterns		Traffic Pattern Entry
PLT161			
14 CFR 91			
Regulations	Airspace Classes		Limitations
Regulations	Airspace Classes		VFR Requirements
Aeronautical Information Manual			
Airspace	Controlled		Class C
Airspace	Controlled		Communications
PLT162			
Aeronautical Information Manual			
Airspace	Uncontrolled		Class D Airspace

PLT168 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT170 Airplane Flying Handbook, FAA-H-8083-3A Flight Operations	Approach	Go Around
Flight Operations	Landing	Crosswind Approach/Landing
Flight Operations	Landing	Roundout (Flare)
PLT192 AC 00-6 Aviation Weather Weather	Hazardous	Thunderstorms
PLT194 AC 90-48 Pilots' Role in Collision Avoidance Airport Operations	Traffic Patterns	Collision Avoidance
PLT195 AC 90-48 Pilots' Role in Collision Avoidance Flight Operations	Collision Avoidance	Pilot's Role
Airplane Flying Handbook, FAA-H-8083-3A Flight Operations	Approach	Normal Approach/Landing
PLT196 Aeronautical Information Manual Airport Operations	Tower Controlled	ATIS
PLT198 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Dead Reckoning	Calculations
PLT206 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Atmospheric Effects	Determining Density Altitude
PLT208 Airplane Flying Handbook, FAA-H-8083-3A Flight Operations	Landing	Emergency Approaches/Landings (Actual)
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Dead Reckoning	Calculations
PLT214 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Load Factor	Maneuvering Speed
PLT219 Airplane Flying Handbook, FAA-H-8083-3A Flight Operations	Maneuvers	Ground Reference
PLT221 Airplane Flying Handbook, FAA-H-8083-3A Flight Operations	Landing	Normal Approach/Landing
PLT222 Airplane Flying Handbook, FAA-H-8083-3A Aircraft Performance	Atmospheric Effects	Soft-Field Takeoff/Climb
PLT226 AC 00-6 Aviation Weather Weather	Meteorology	Fog
PLT232 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Risk Management
PLT236 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Airfoil Design
Aerodynamics	Stability/Control	Design Characteristics
PLT241 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Forces Acting on Aircraft
PLT242 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Forces Acting on Aircraft
Aerodynamics	Principles of Flight	Pressure Distribution
PLT244 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Stability/Control	Design Characteristics
PLT251 Powered Parachute Flying Handbook, FAA-H-8083-29 Aircraft Systems	Powerplant	Lubrication

PLT253			
	<u>Powered Parachute Flying Handbook, FAA-H-8083-29</u>		
Aircraft Systems	Fuel/Oil		Auxiliary/Standby Fuel Pump
Aircraft Systems	Fuel/Oil		Tanks
Aircraft Systems	Fuel/Oil		Venting
Aircraft Systems	Powerplant		2-Cycle Engines
PLT254			
	<u>Powered Parachute Flying Handbook, FAA-H-8083-29</u>		
Aircraft Systems	Fuel/Oil		Tanks
PLT258			
	<u>Airplane Flying Handbook, FAA-H-8083-3A</u>		
Flight Operations	Maneuvers		Ground Reference
PLT263			
	<u>AC 00-6 Aviation Weather</u>		
Weather	Meteorology		Fog
PLT270			
	<u>AC 60-22 Aeronautical Decision Making</u>		
Human Factors	ADM		Judgment
PLT271			
	<u>Powered Parachute Flying Handbook, FAA-H-8083-29</u>		
Aircraft Systems	Structures		Parachute
PLT272			
	<u>AC 60-22 Aeronautical Decision Making</u>		
Human Factors	ADM		Judgment
PLT278			
	<u>Powered Parachute Flying Handbook, FAA-H-8083-29</u>		
Aircraft Systems	Powerplant		EGT
PLT280			
	<u>Aeronautical Information Manual</u>		
Human Factors	Aero-medical Factors		Visual Illusions
PLT290			
	<u>AC 00-45 Aviation Weather Services</u>		
Weather	Aeronautical Weather Forecasts		Data Dissemination
PLT291			
	<u>AC 00-45 Aviation Weather Services</u>		
Weather	Aeronautical Weather Forecasts		Aviation Weather Forecasts
PLT301			
	<u>AC 00-6 Aviation Weather</u>		
Weather	Meteorology		Temperature
PLT314			
	<u>Airplane Flying Handbook, FAA-H-8083-3A</u>		
Flight Operations	Landing		Touchdown
PLT317			
	<u>Aeronautical Information Manual</u>		
Weather	Hazardous		Microburst
Weather	Meteorology		Microburst
PLT320			
	<u>Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</u>		
Navigation	Dead Reckoning		Aeronautical Charts
Navigation	Dead Reckoning		Calculations
PLT323			
	<u>Aeronautical Information Manual</u>		
Navigation	Pilotage		NOTAMS
PLT324			
	<u>Powered Parachute Flying Handbook, FAA-H-8083-29</u>		
Aircraft Systems	Powerplant		Lubrication
PLT328			
	<u>Aircraft Weight and Balance Handbook, FAA-H-8083-1</u>		
Weight and Balance	Aircraft Loading		Limitations
PLT330			
	<u>Aeronautical Information Manual</u>		
Human Factors	Aero-medical Factors		Physiological
PLT332			
	<u>Aeronautical Information Manual</u>		
Human Factors	Aero-medical Factors		Physiological
PLT334			
	<u>Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25</u>		
Human Factors	Aero-medical Factors		Physiological

PLT342 <u>Powered Parachute Flying Handbook, FAA-H-8083-29</u> Aircraft Systems	Powerplant	Cooling
PLT343 <u>Powered Parachute Flying Handbook, FAA-H-8083-29</u> Aircraft Systems	Propeller	Reduction Drive
PLT344 AC 00-6 Aviation Weather Weather	Meteorology	Moisture
PLT346 <u>Powered Parachute Flying Handbook, FAA-H-8083-29</u> Aircraft Systems	Flight Controls/Primary	Steering Bars
PLT348 <u>Powered Parachute Flying Handbook, FAA-H-8083-29</u> Aerodynamics	Principles of Flight	Turning Tendency
PLT349 Rotorcraft Flying Handbook, FAA-H-8083-21 Flight Operations	Maneuvers	Advanced
PLT351 <u>Powered Parachute Flying Handbook, FAA-H-8083-29</u> Aircraft Systems	Propeller	Propeller Efficiency
PLT353 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Reports	Interpret
PLT366 49 CFR 830 Regulations	NTSB Part 830	Reporting
PLT370 Aeronautical Information Manual Flight Operations	Collision Avoidance	Ground Track
PLT386 14 CFR 61 Regulations	Student Certificate	Expiration
PLT393 Aeronautical Information Manual Airspace	Communications	Restricted Airspace
Airspace	Special Use	Military Training Route
Airspace	Special Use	MOA
Airspace	Special Use	Warning Areas
PLT395 14 CFR 1 Regulations	14 CFR Part 1	Crewmember
PLT403 14 CFR 91 Regulations	14 CFR Part 91	Emergency-Priority
PLT405 14 CFR 61 Regulations	Eligibility	Practical Test
PLT407 14 CFR 61 Regulations	Flight Review	Proficiency Check
PLT411 14 CFR 61 Regulations	Flight Instructor	Certificate Renewal/Duration
Regulations	Flight Instructor	Endorsements
Regulations	Flight Instructor	Limitations
PLT416 49 CFR 830 Regulations	NTSB Part 830	Reporting
PLT418 14 CFR 61 Regulations	Student Pilot	Logging Training Time
PLT419 14 CFR 61 Regulations	Flight Instructor	Endorsements

PLT430			
14 CFR 91			
Regulations	Minimum Safe Altitude		Congested Areas
Regulations	Minimum Safe Altitude		Definition
PLT435			
Aeronautical Information Manual			
Airport Operations	Communications		CTAF
Airport Operations	Communications		Unicom Frequency
PLT442			
14 CFR 61			
Regulations	Flight Review		Currency Requirements
PLT448			
14 CFR 61			
Regulations	14 CFR Part 61		Suspended/Revoked
PLT455			
Aeronautical Information Manual			
Navigation	Pilotage		Closing VFR/DVR Flight Plans
PLT457			
14 CFR 61			
Regulations	Student Pilot		Endorsements
PLT463			
14 CFR 91			
Regulations	Alcohol/Drugs		Crewmember Responsibility
PLT475			
AC 00-6 Aviation Weather			
Weather	Hazardous		Thunderstorms
PLT478			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aircraft Systems	Powerplant		Magnetos
PLT480			
Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25			
Aerodynamics	Stability/Control		Negative Static Stability
Aerodynamics	Stability/Control		Positive Dynamic Stability
PLT481			
AC 60-22 Aeronautical Decision Making			
Human Factors	ADM		Judgment
PLT495			
AC 00-6 Aviation Weather			
Weather	Hazardous		Thunderstorms
PLT501			
AC 00-6 Aviation Weather			
Weather	Hazardous		Mountain Flying
PLT502			
14 CFR 91			
Regulations	14 CFR Part 91		ATC Light Signals
Regulations	14 CFR Part 91		Light Signal-Aircraft on Ground
Regulations	Universal Signals		Control Tower Signals
Aeronautical Information Manual			
Airport Operations	Tower Controlled		Light Signals
PLT509			
Aeronautical Information Manual			
Airport Operations	Wake Turbulence		Separation
Airport Operations	Wake Turbulence		Wake Turbulence Avoidance
PLT512			
AC 00-6 Aviation Weather			
Weather	Meteorology		Moisture
PLT518			
AC 00-6 Aviation Weather			
Weather	Hazardous		Turbulence
Weather	Hazardous		Wind shear

**Flight Instructor Sport Pilot—Weight-Shift-Control (SIW)
Sample Questions**

FLIGHT INSTRUCTOR SPORT PILOT—WEIGHT-SHIFT-CONTROL (SIW)

1. What effect does high-density altitude have on aircraft performance?

- A—It increases engine performance.
- B—It reduces climb performance.
- C—It increases takeoff performance.

Answer: B.

Learning Statement: Recall aircraft performance-density altitude.

2. Which combination of atmospheric conditions will reduce aircraft takeoff and climb performance?

- A—Low temperature, low relative humidity, and low-density altitude.
- B—High temperature, low relative humidity, and low-density altitude.
- C—High temperature, high relative humidity, and high-density altitude.

Answer: C.

Learning Statement: Recall aircraft performance-atmospheric effects.

3. (Refer to Figure 5.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

- A—1,341 feet MSL.
- B—1,451 feet MSL.
- C—1,562 feet MSL.

Answer: A.

Learning Statement: Calculate pressure altitude.

NOTE: See Figure 5 on page 102.

4. What is true altitude?

- A—The vertical distance of the aircraft above sea level.
- B—The vertical distance of the aircraft above the surface.
- C—The height above the standard datum plane.

Answer: A.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

5. In which situation is indicated altitude the same as true altitude?

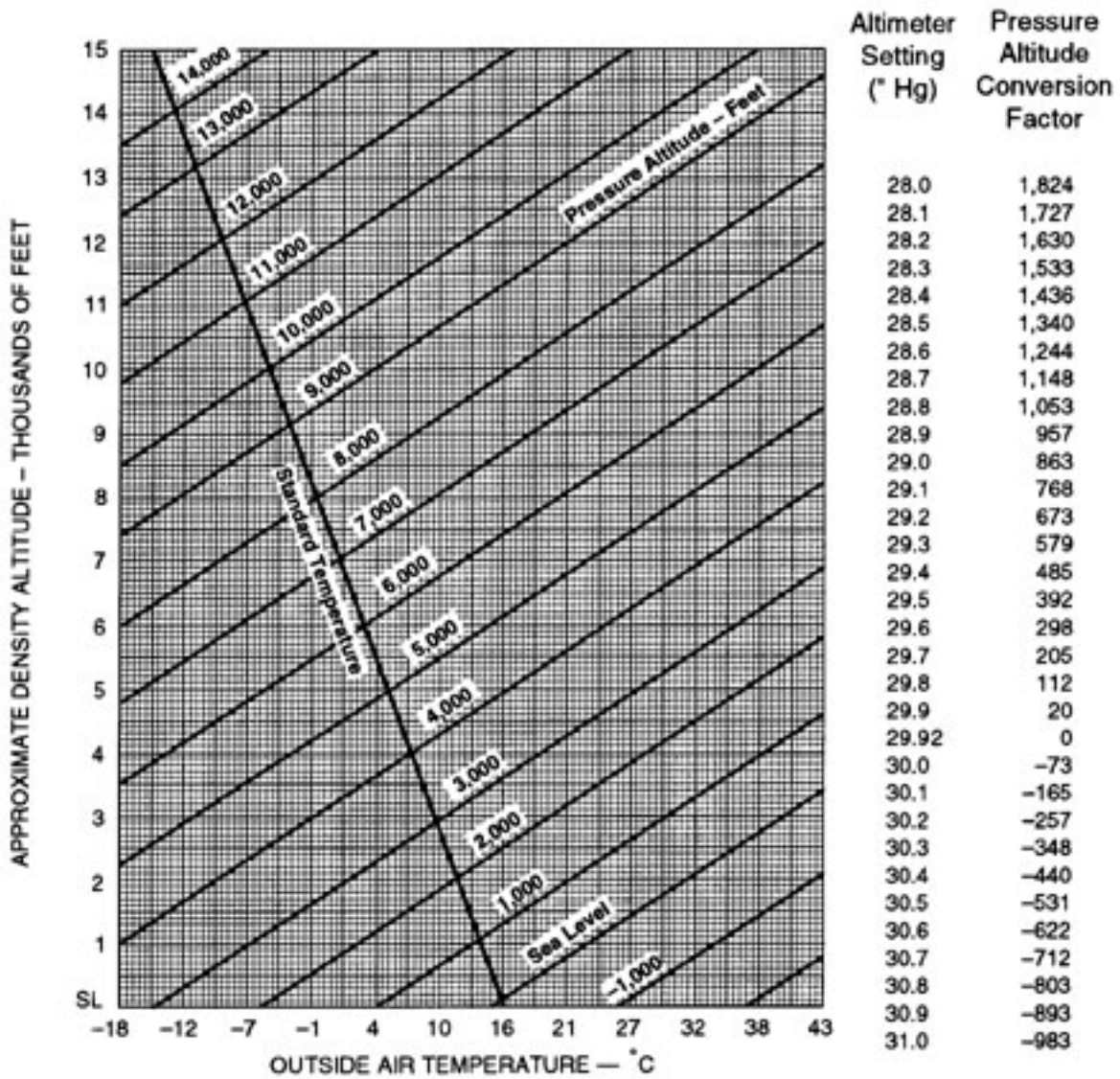
- A—If the altimeter has no mechanical error.
- B—When at sea level under standard atmospheric conditions.
- C—When at 18,000 feet MSL with the altimeter set at 29.92.

Answer: B.

Learning Statement: Define altitude-absolute/true/indicated/density/pressure.

GRAPHIC FOR SAMPLE QUESTION NUMBER 3: Figure 5.

DENSITY ALTITUDE CHART



LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR SPORT PILOT—WEIGHT-SHIFT-CONTROL (SIW)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT005 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Computations	Determining Density Altitude
PLT012 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Charts	Determining Ground Roll
Aircraft Performance	Computations	Determining Landing Distance
Navigation	Dead Reckoning	Calculations
PLT021 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Weight and Balance	Aircraft Loading	Limitations
PLT022 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Hazardous Attitude
Human Factors	ADM	Risk Management
PLT025 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Principles of Flight	Physics
PLT040 Aeronautical Information Manual Airspace	Controlled	Class C
PLT041 AC 00-6 Aviation Weather Weather	Meteorology	Pressure
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	AC 60-22 Aeronautical Decision Making		
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	Airplane Flying Handbook, FAA-H-8083-3A		
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	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
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PLT463 14 CFR 91 Regulations	Alcohol/Drugs	Crewmember Responsibility
PLT475 AC 00-6 Aviation Weather Weather	Hazardous	Thunderstorms
PLT478 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Powerplant	Magnetos
PLT480 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Stability/Control	Negative Static Stability
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PLT481 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Judgment
PLT495 AC 00-6 Aviation Weather Weather	Hazardous	Thunderstorms
PLT501 AC 00-6 Aviation Weather Weather	Hazardous	Mountain Flying
PLT502 14 CFR 91 Regulations	14 CFR Part 91	ATC Light Signals
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Regulations	Universal Signals	Control Tower Signals
Aeronautical Information Manual Airport Operations	Tower Controlled	Light Signals
PLT509 Aeronautical Information Manual Airport Operations	Wake Turbulence	Separation
Airport Operations	Wake Turbulence	Wake Turbulence Avoidance
PLT512 AC 00-6 Aviation Weather Weather	Meteorology	Moisture
PLT518 AC 00-6 Aviation Weather Weather	Hazardous	Turbulence
Weather	Hazardous	Wind shear

**Flight Instructor Sport Pilot—Gyroplane (SIY)
Sample Questions**

FLIGHT INSTRUCTOR SPORT PILOT—GYROPLANE (SIY)

1. During flight, if you apply cyclic control pressure, which results in a decrease in pitch angle of the rotor blades at a position approximately 90° to your left, the rotor disc will tilt

- A—aft.
- B—left.
- C—right.

Answer: A.

Learning Statement: Recall cyclic control pressure-characteristics.

2. Rotor blade flapping action is

- A—an undesirable reaction to changes in airspeed and blade angle.
- B—an aerodynamic reaction to high speed flight and cannot be controlled by the pilot.
- C—a design feature permitting continual changes in the rotor blade angle of attack, compensating for dissymmetry of lift.

Answer: C.

Learning Statement: Recall rotor system-types/components/operating principles/characteristics.

3. If the ground wire between the magneto and the ignition switch becomes disconnected, the most noticeable result will be that the engine

- A—will run very rough.
- B—cannot be started with the switch in the ON position.
- C—cannot be shut down by turning the switch to the OFF position.

Answer: C.

Learning Statement: Recall starter/ignition system-types/components/operating principles/characteristics.

4. A slightly below glide path indication on a 2-bar VASI glide path is indicated by

- A—two red lights over two white lights.
- B—two white lights over two red lights.
- C—two red lights over two more red lights.

Answer: C.

Learning Statement: Recall airport operations-visual glideslope indicators.

5. When the pilot leans the mixture control, what is being accomplished?

- A—The volume of air entering the carburetor is being reduced.
- B—The volume of air entering the carburetor is being increased.
- C—The amount of fuel entering the combustion chamber is being reduced.

Answer: C.

Learning Statement: Recall fuel system-components/operating principles/characteristics/leaks.

LIST OF REFERENCE MATERIALS SPECIFIC TO THE FLIGHT INSTRUCTOR SPORT PILOT—GYROPLANE (SIY)

<i>Topic</i>	<i>Content</i>	<i>Specific</i>
PLT005 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Performance	Computations	Determining Density Altitude
PLT012 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Navigation	Dead Reckoning	Calculations
Navigation	Pilotage	Calculations
PLT021 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Weight and Balance	Aircraft Loading	Weight & Balance Diagram
PLT022 AC 60-22 Aeronautical Decision Making Human Factors	ADM	Hazardous Attitude
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PLT023 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Flight Instruments	Altitude
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PLT044 Aeronautical Information Manual Airspace	Procedures	Communications
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Weather	Charts/Maps	Convective Outlook Charts
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PLT064 Aeronautical Information Manual Airspace	Controlled	Class B
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PLT070 AC 00-45 Aviation Weather Services Weather	Charts/Maps	Stability Chart
PLT074 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aerodynamics	Load Factor	Bank Angle vs. Gravity Load
PLT076 AC 00-45 Aviation Weather Services Weather	Aeronautical Weather Forecasts	Data Dissemination
PLT078 Airport/Facility Directory Airport Operations	Runway Conditions	Gradient
PLT088 Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25 Aircraft Systems	Flight Instruments	Airspeed Indicator

PLT101			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
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PLT107			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
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PLT112			
	Rotorcraft Flying Handbook, FAA-H-8083-21		
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PLT116			
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PLT125			
	Airplane Flying Handbook, FAA-H-8083-3A		
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PLT127			
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	AC 90-48 Pilots' Role in Collision Avoidance		
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PLT208			
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PLT214			
	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
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	Pilot's Handbook of Aeronautical Knowledge, FAA-H-8083-25		
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