

Study References:

1. Aircraft limitations
2. Aircraft operation and maintenance
3. FARs
 - a. Eligibility requirements for student pilots (61.83)
 - b. Solo flight requirements for student pilots (61.87)
 - c. General limitations (61.89)
 - d. Responsibility and authority of the pilot in command (91.3)
 - e. Careless or reckless operation (91.13)
 - f. Dropping objects (91.15)
 - g. Alcohol or drugs (91.17)
 - h. Portable electronic devices (91.21)
 - i. Preflight action (91.103)
 - j. Use of safety belts, shoulder harnesses and child restraint systems (91.107)
 - k. Right-of-way rules (91.113)
 - l. Minimum safe altitudes (91.119)
 - m. Altimeter settings (91.121)
 - n. Compliance with ATC clearances and instructions (91.123)
 - o. ATC light signals (91.125)
 - p. Operating on or in the vicinity of an airport in Class G airspace (91.126)
 - q. Operating on or in the vicinity of an airport in Class E airspace (91.127)
 - r. Operations in Class D airspace (91.129)
 - s. Operations in Class C airspace (91.130), as necessary
 - t. Operations in Class B airspace (91.131), as necessary
 - u. Restricted and prohibited areas (91.133)
 - v. Fuel requirements for flight in VFR conditions (91.151)
 - w. Basic VFR weather minimums (91.155)
 - x. Civil aircraft: Certifications required (91.203)
 - y. Aircraft lights (91.209)
 - z. Aerobatic flight (91.303)
4. *Aeronautical Information Manual (AIM)*
 - a. Wake turbulence
 - b. Radio failure procedures
 - c. Airport markings
 - d. Traffic pattern
 1. Pattern legs
 2. Entry and departure
 3. Standard turns
 5. Local procedures
 - a. Frequencies
 1. Airports
 2. Emergency
 - b. Airport procedures
 1. Traffic pattern directions and altitudes
 2. Noise abatement
 3. Particular flight school procedures (as applicable)

Two Dogs Aviation (Goldsboro)

Pre-Solo Written Test

Name _____

1. Define and list the following speeds for your aircraft:

Vs- _____ kts; definition: _____

Vso- _____ kts; definition: _____

Vx- _____ kts; definition: _____

Vy- _____ kts; definition: _____

Va- _____ kts; definition: _____

Vfe- _____ kts; definition: _____

Vno- _____ kts; definition: _____

Vne- _____ kts; definition: _____

2. What is the airplane's best glide speed? _____

When is it used?

3. List the procedure to respond to an in-flight engine failure.

4. List the procedure to respond to an engine fire on the ground while starting.

5. List the procedure for loss of communication radio when arriving at an airport with an operating control tower.

Take-Home Test

Instructions: Answer each question in the space provided, using the FARs, the AIM, the *Airport/Facility Directory*, and the *Pilot's Operating Handbook*. Use the space to the left of the question number to list the reference for each question. The instructor may pick and choose particular questions to shorten the length of the test.

1. (ref: _____) What is the maximum gross weight of the airplane in the Normal category? _____
2. (ref: _____) If a glider is converging with an airplane, which has the right of way?

3. (ref: _____) What are the limit load factors in both the Normal and Utility categories with the flaps up and down?
4. (ref: _____) What preflight action is required of a pilot prior to a flight?
5. (ref: _____) What is the maximum rpm of your airplane? _____
6. (ref: _____) Define an aerobatic maneuver.
7. (ref: _____) Generally describe the engine in your airplane.
8. (ref: _____) List the definition of careless or reckless operation.
9. (ref: _____) What is the oil sump capacity in your airplane? _____
What is the minimum? _____
10. (ref: _____) What is the minimum amount of time after the consumption of alcohol a pilot is required to wait? _____

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Pre-Solo Written Test

Name _____

11. (ref: _____) What would happen to the fuel indicators if all electricity in the airplane was lost?

12. (ref: _____) What are the basic VFR weather minimums?

What is the minimum visibility for a student pilot?

13. (ref: _____) Why is it necessary to drain fuel out of the sumps after refueling and before the first flight of the day?

14. (ref: _____) List and describe each of the light gun signals available from air traffic control.

15. (ref: _____) Will the engine still run if the master switch is turned off? _____
Why or why not?

16. (ref: _____) What are wing-tip vortices (wake turbulence)?

With which aircraft are they greatest?

Describe proper avoidance.

17. (ref: _____) What endorsements are required for solo flight?

What three documents must you have in your possession to solo an aircraft as a student?

18. (ref: _____) During runup, what is the maximum allowable rpm drop? _____

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Pre-Solo Written Test

Name _____

19. (ref: _____) Draw an airport traffic pattern, labeling each leg and the proper entry and departure points.

Which turn direction is standard for an airport traffic pattern? _____

20. (ref: _____) List the traffic pattern altitude, direction of turns, noise abatement procedures, and all radio frequencies for the following local area airports and their runways.

GWW

W03

ISO

21. (ref: _____) What is the fuel capacity of your aircraft? _____

How much is usable? _____

22. (ref: _____) What is the authority and responsibility of the pilot in command?

23. (ref: _____) When are you required to wear a safety belt?

24. (ref: _____) When are you permitted to deviate from an ATC instruction?

25. (ref: _____) What grade(s) of aviation fuel is/are available for use?

What color is each?

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Pre-Solo Written Test

Name _____

26. (ref: _____) When an aircraft is approaching another head on, each pilot should alter their course to the _____.
27. (ref: _____) A(n) _____ on the runway indicates that the runway is closed.
28. (ref: _____) Draw the pavement marking requiring you to stop before entering a runway.
29. (ref: _____) When is dropping objects from an airplane permitted?
30. (ref: _____) The _____ of two aircraft on approach to the same runway has the right of way.
31. (ref: _____) What must a pilot do before entering Class D airspace?
32. (ref: _____) What is the minimum safe altitude anywhere? _____
Over congested areas? _____
33. (ref: _____) List the day-VFR weather minimums in Class G, E, and D airspace.
34. (ref: _____) List the documents that must be aboard the aircraft at all times.
35. (ref: _____) When must the aircraft's navigation lights be on?
36. (ref: _____) What are you, as a student pilot, required to have before operating in Class B airspace?
37. (ref: _____) What is the minimum reserve fuel required for day VFR operations?