

Dragonfly Aviation Inc.
Biennial Flight Review

Date _____

Instructor _____

Pilot _____

Material Needed: SFO sectional and Terminal Charts, Airport/Facility Directory,
FAR/AIM VFR OPERATIONS

A. You are planning to take two friends on a trip from Sonoma Co. Airport to Red Bluff just after midnight in a Dragonfly rental aircraft: plot a course for a direct flight on your sectional chart.

1. Do you do preflight planning at the airport at 5:00pm. From whom do you get your weather information?
2. Where are they located?
3. At 3:30 you had a few drinks with your friends; are you legal to make this trip?
4. Under what circumstances might this not be so?
5. Could the local sheriff demand a blood test from you?
6. What is the minimum fuel reserve for this trip?
7. What are the currency requirements for this trip?
8. What documents must be in your possession to make this trip?
9. If your flight physical was 23 months ago today, until when is your medical certificate for private operations valid?
10. What documents must be in the airplane?
11. What are the inspection requirements for this airplane?
12. Cloud bases are 15,000' MSL. You plan to make this trip at the highest VFR altitude allowed. What is this altitude?
13. What would be your requirements for oxygen?
14. What would be the requirement for passenger oxygen?
15. Your aircraft is equipped with an encoding altimeter; must it be on?

16. Is it required for this flight?
17. What code must be entered for this flight?
18. On preflight you notice your landing light is inoperative; is your airplane required to be equipped with a landing light for this trip?
19. If installed, is it required to be operational prior to departure?

B. It is 0030 local time. You board your passengers and prepare for departure.

1. Prior to taxiing for departure, from whom would you attempt to receive airport advisory? On what frequency?
2. The wind is out of the south. Which runway will you use and will the pattern be right or left hand traffic?
3. To whom would you announce your intentions on departure? On what frequency?
4. With whom would you open your VFR flight plan? On what frequency or frequencies?
5. After departure, your passengers ask to remove their seat belts; may they all do so?
6. At what point in the flight would you lean the mixture? Describe the leaning procedure for the airplane that you normally fly.
7. From whom and what frequency would you obtain updated weather information?
8. As you pass through the area labeled MAXWELL 1 MOA, what type of flight activity might you find?
9. Over the mountains you encounter turbulence that dislodges loose objects and causes changes in altitude and attitude. What term would you use to describe it in a PIREP?
10. To whom would you report it?
11. To what speed would you slow the aircraft while in an area of turbulence? Why? What is this speed called? Where is it located on the airspeed indicator?
12. How is this speed affected by the loading of the aircraft?

13. What is the gray line labeled IR207 which your route crosses just north of clear lake?
14. Would this affect your flight planning?
15. Would this be so if the route identifier had four digits? Why?
16. From whom would you obtain further information about it?
17. What is the meaning of the magenta area surrounding the Haigh airport?
18. Within what distance should you contact Red Bluff Radio for advisories?
19. With the wind out of the southeast, which runway would you use?
20. How long is it?
21. Should you be in right or left traffic of the runway? How can you see on the chart?
22. What altitude should you be at on downwind?
23. If the runway lights are not on when you arrive to Red Bluff, how could you get them turned on?
24. If there is a device that will have you visual glide path information for this runway, what is it?
25. On what side of the runway would you be located?
26. At what height does this glide path pass the runway threshold?
27. Is it legal to descend below the flight path?

C. At the last minute you observe a wrecked airplane on the runway. The last weather you received indicates that Sacramento Executive is clear, and you decide to divert there. Since you topped off fuel at Sonoma County, as a precautionary measure, you have more than enough fuel to make this diversion. Unfortunately you lose two way radio communication capability on the way to Sac Exec.

1. How would you notify ATC about your inability to communicate?
2. What steps might you take to rectify the problem?
3. Enroute to Sac. Exec. You look to your left and see an airport beacon flashing WHITE-WHITE-GREEN. Which airport beacon do you see?

4. You're on the V-23 on the northwest edge of Sac. Metro Class C airspace, at 7,500 feet when you begin your decent into Sac. Exec. Just then you see a military C-5 at your 11 o'clock at approx 7,000 feet crossing your path. What course of action would you take?
5. Looking toward the tower, you see a steady green light. How do you acknowledge it?
6. What action do you take?
7. On short final, the tower signals you a solid red light. What do you do?
8. On roll out, the tower signals you a flashing red light. What do you do?
9. Taxiing to the ramp, the tower signals you a solid red light. What do you do?
10. Are you required to notify NTSB of the failure in the flight of your communication radios or your penetration of the airspace at Sac. Exec. Metro?

VFR CHART INTERPETATION
On the SFO Terminal Area Chart/ Sectional Chart

1. What is the dashed blue line with an arrow attached to it just north of Mt. Tamalpais?
2. What is the meaning of the magenta flag over Berkeley?
3. Under what circumstances could you transit the airspace labeled R-2531 (east of Livermore)?
4. What is the maximum altitude at which you fly over Alcatraz without contacting ATC?
5. What requirements exist for a flight over Treasure Island at 2,000 feet MSL?
6. On what frequency would you accomplish this?
7. What is the magenta anchor next to the Sausalito VOR?
8. What is the dashed magenta line north of Sausalito VOR?
9. What is the large "42" ten NM southeast of Mt. Diablo?
10. What is the meaning of the asterisk after the tower frequency at Concord?

11. What is the meaning of the H in the top right corner of the communications box associated with OAK VOR?
12. To fly directly from Gness to San Carlos at 4,500 feet MSL, what equipment must you have aboard the airplane in addition to that required for day VFR?
13. What must you receive from ATC to make this flight? What words must you hear?
14. With whom would you be speaking? On what frequency?
15. May permission to fly this route and altitude be denied?
16. How would you get to San Carlos if it were?

AIRSPACE

1. What is controlled airspace?
2. What is Class A airspace?
3. What is class B airspace?
4. How is it depicted on the charts?
5. What is class C airspace?
6. How is it depicted on the charts?
7. What is class D airspace?
8. How is it depicted on the charts?
9. What types of airspace require clearance prior to entry?
10. In what types of airspace is there a requirement to communicate with ATC, but no requirement for clearance?
11. Name the types of SPECIAL USE AIRSPACE.
12. As a VFR pilot from what airspace are you always excluded?

PERFORMANCE AND W/B. USE MANUAL E6B

What are the following speeds for the A/C you will be flying and briefly explain them.

$V_g =$

$V_x =$

$V_y =$

$V_a =$

$V_{so} =$

$V_{s1} =$

$V_r =$

What are the following for your a/c?

Payload =

Useful Load =

Takeoff Weight =

You are planning to pickup (yourself) some friends in Truckee-Tahoe (TRK) and find the main runway closed upon your arrival. It is a hot summer's day and the outside temp. is 30 C. Please calculate the necessary to land on the alternate runway. (Landing distance, density alt., CG, etc.)

Your friends weigh 160lbs, 230lbs and 150lbs; they each have 40lb bags with them. Calculate the necessary (Fuel, landing distance, density alt., CG etc.) to depart and fly back to STS.

Please Explain short and soft field ops. And how they affect takeoff and landings.