

Flight Planning and Navigation Log

Use the following steps with the "Flight Planning & Navigation Log" table below to plan a flight. Use additional sheets if necessary for more route segments.

1. **Safe altitude** -- Minimum altitude you must fly to be above any terrain features.
2. **Altitude** -- Cruising flight altitude.
3. **Indicated airspeed** -- Cruising indicated airspeed (knots or mph).
4. **True airspeed** -- Indicated airspeed (knots or mph) corrected for pressure altitude.
5. **Winds aloft forecast** -- Forecast wind speed, direction, and temperature at the cruising altitudes.
6. **Distance** -- Miles (statute or nautical) for the a) segment b) total.
7. **True course in degrees** -- true direction aircraft travels for flight segment.
8. **Heading of aircraft** -- a) true direction aircraft is pointed b) magnetic direction aircraft is pointed.
9. **Ground speed** -- Speed over the ground accounting for wind effects.
10. **Time en route** -- Distance divided by ground speed a) per leg b) total.
11. **Fuel burned** -- Fuel consumption multiplied by time a) per leg b) total.
12. **Longitude and latitude** -- Coordinates for GPS input if needed.
13. **ATC radio frequencies** -- Frequencies for checkpoints or airports.
14. **Verify performance** -- Calculate and verify weight and balance for all aspects of the flight including takeoff and landing margins for intended and diverted airports.

Flight planning & Navigation Log Table

	Route segment 1		Route segment 2		Route segment 3	
Departure location ID	Checkpoint ID		Checkpoint ID		Checkpoint ID	
	Planned	Actual	Planned	Actual	Planned	Actual
1. Safe Altitude		X		X		X
2. Altitude						
3. Indicated Air Speed						
4. True Air Speed						
5. Winds aloft forecast						
6. a. Distance leg		X		X		X
b. Distance total		X		X		X
7. True course		X		X		X
8. a) True heading		X		X		X
b) Magnetic heading		X		X		X
9. Ground speed						
10. a. Time to checkpoint						
b. Time total						
11. a) Fuel Burned leg						
b) Fuel Burned total						
12. Longitude & Latitude						
13. ATC Radio frequencies						
14. Verify Performance						