Weight & Balance
Archer: N345MK

PRACTICE USE ONLY	Weight	Arm	Moment
Basic Empty Weight	1654.2	87.9	145402.8
Pilot/Copilot		80.5	
Rear Passengers		118.1	
Baggage Area (200 lbs max)		142.8	
Zero Fuel Weight			
Fuel Weight		95.0	
Ramp Weight			
Start / Taxi / Run-up	-8	95.0	-665
Takeoff Weight			
Tail # Adjustment (if applicable)			
New Takeoff Weight (if applicable)			
Trip Fuel Burn		95.0	
Landing Weight			
Tail # Adjustment (if applicable)			
New Landing Weight (if applicable)			

New Tail Number (if switched by dispatch): N3____MK

Persons on Board

Passenger Current?

PIC Name: _____ Weight: _____ ☐

Additional Pilot Name: _____ Weight: _____ ☐

Passenger #1 Name: _____ Weight: _____

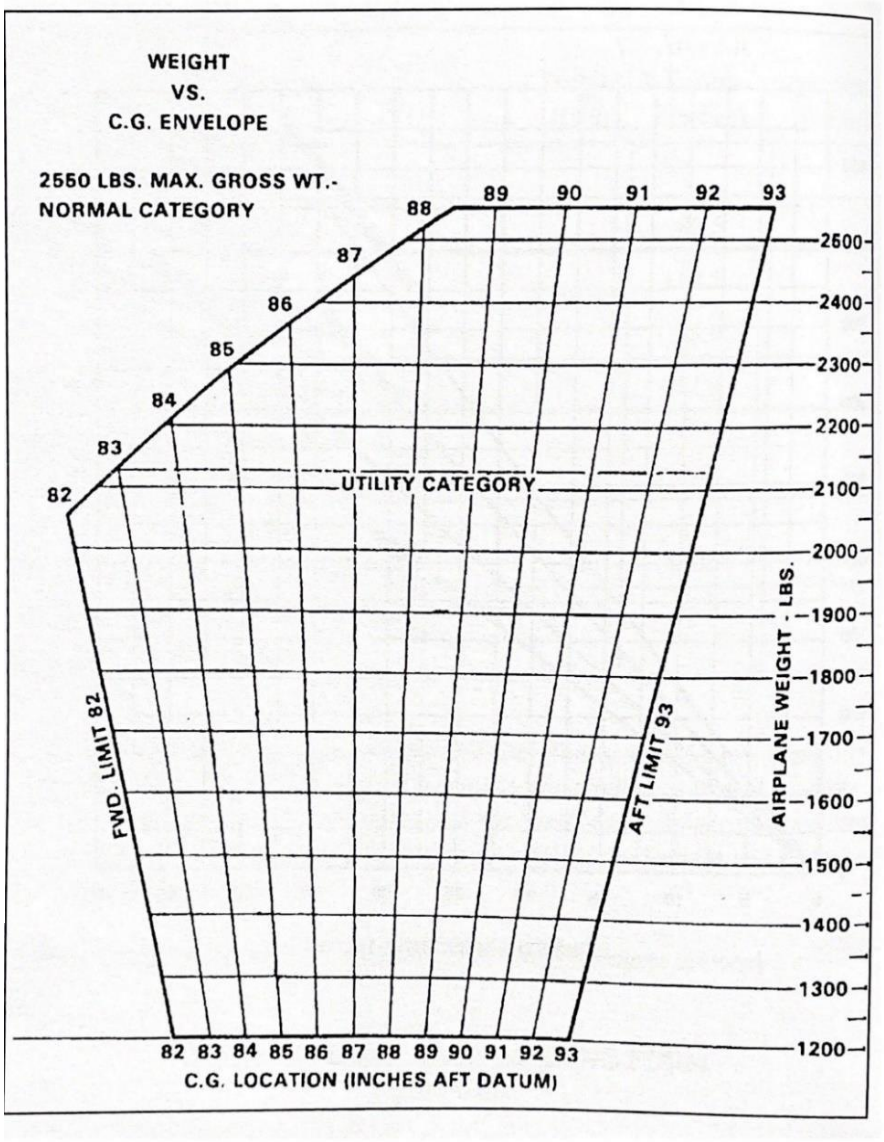
Passenger #2 Name: _____ Weight: _____

Limitations

Maximum Ramp Weight	2558 lbs
Maximum Takeoff Weight	2550 lbs
Maximum Landing Weight	2550 lbs

NAME:_____ **DATE:** _____

REQUIRED: The takeoff weight and landing weight must be plotted on the diagram below.



Important Weights

Chocks = 1 lb
Airplane Blanket = 8 lbs
Cold Weather Kit = 15 lbs
Cross-Country Kit = 20 lbs
Survival Kit = 4 lbs

FAR 91.103 – Preflight Action

Weather

Departure Weather

Temp_____°C Dewpoint____°C Surface Winds_____° @_____kts

Crosswind Component_____kts Headwind Component_____kts

Barometric Pressure_____"Hg Pressure Altitude_____

Density Altitude_____

Destination Weather (required for flights to another airport that isn't MKT)

Temp_____°C Dewpoint_____°C Surface Winds_____° @_____kts

Crosswind Component_____kts Headwind Component_____kts

Barometric Pressure_____"Hg Pressure Altitude_____

Density Altitude_____

Performance Calculations

Departure Runway Length_____ft Takeoff Weight_____ft

Arrival Runway Length_____ft Service Ceiling_____ft

Takeoff Distance: Ground Roll_____ft 50' Obs_____ft

Landing Distance: Ground Roll_____ft 50' Obs_____ft

Passenger Approval

This section is utilized if a passenger is not a North Star Aviation student. This form must be accompanied by a passenger waiver form. Appointments for aircraft rentals and passenger approval must be reserved at least 5 business days in advance to ensure an appointment can be scheduled on the day of the rental.

The following passenger(s) is/are approved to accompany this flight:

_____

Chief/Assistant Chief Signature _____

Certification

By signing below, I acknowledge the following:

1. The information on this form is true, accurate, and it was prepared for the specific conditions of my flight today.
2. I am on Lesson #_____, and I have reviewed the lesson objective, completion standards, reading/study materials, and all training items required to complete the lesson.
3. I have checked all NOTAMS for my route of flight.
4. IMSAFE
5. I am responsible for ensuring my flight is completed by the next maintenance event, and I have checked the deferred squawks binder.

Student Signature: _____ IP Signature: _____