

# Aircraft Weight and Balance Exercise



## Weight and Balance Basics:

Aircraft performance and handling characteristics can be significantly affected by weight and center of gravity limits. An overloaded or improperly balanced aircraft will require more fuel and power to maintain stable flight. To learn more on how to complete the weight and balance sheet below go to [www.NCTaviationcareers.com/wbexercise](http://www.NCTaviationcareers.com/wbexercise).

Weight and Balance Sheet:		Weight (lbs)	x	Arm (inches)	=	Moment (in-lb)
Aircraft Empty Weight		1516		40		
Front Seat Left & Right		L:		R:		37
		Total:				
Fuel (40 gal useable) 6 lbs per gallon	# gal:					48
Rear Seat Left & Right		L:		R:		73
		Total:				
Baggage (120 lbs max)						95
Baggage 2 (50 lbs max)						123
Gross Weight (2550 lbs max):					<b>Total Moment:</b>	
Loaded Center of Gravity (Total Moment / Gross Weight):						