



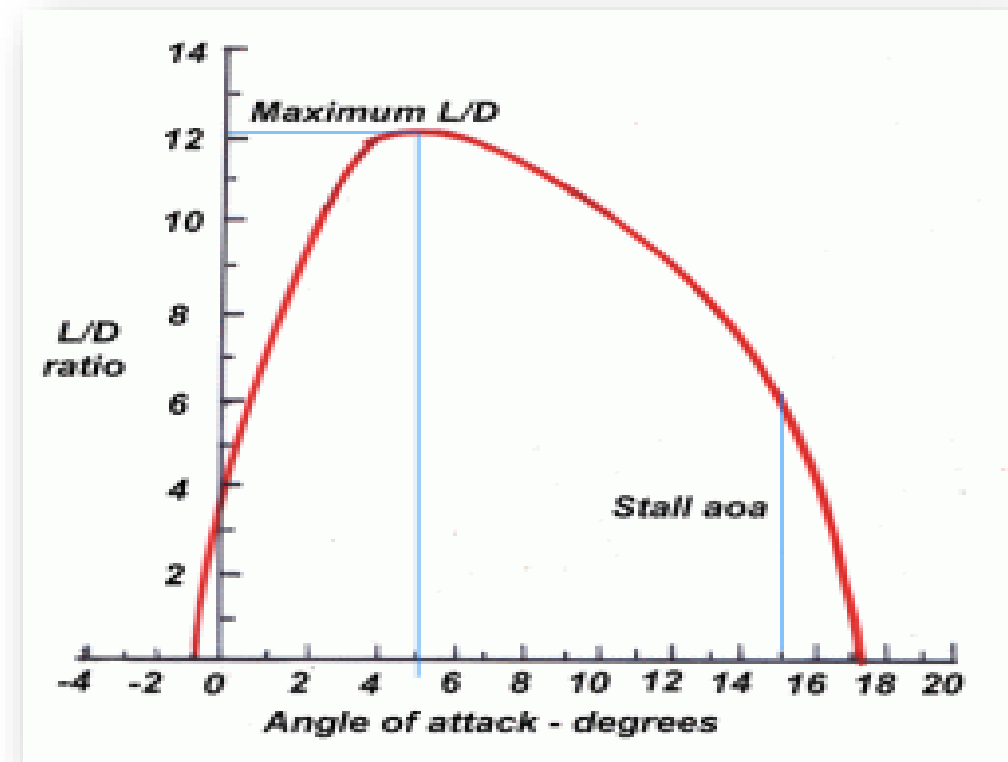
Federal Aviation
Administration

The National FAA Safety Team Presents

Topic of the Month - April Best Glide Speed

Presented to: Free State Flying Club and Friends
By: Drew Myers, FAASTeam Rep
Date: Thursday April 13th, 2023

Produced by:
The National FAA Safety Team (FAASTeam)



Welcome

- **Drew Myers, AOPA Manager of Flying Clubs Initiative**
 - Safety Officer, Free State Flying Club
 - FAASTeam representative, Baltimore FSDO
- **Our monthly in-and-out safety meeting using the FAASTeam Topic of the Month**
- **Sponsor Acknowledgment – FSFC, AOPA, FAASTeam, Baltimore FSDO**
- **WINGS Credit: Yes...but give me a day...**
- **Probably no time for questions, but send email:
drew.myers@aopa.org**



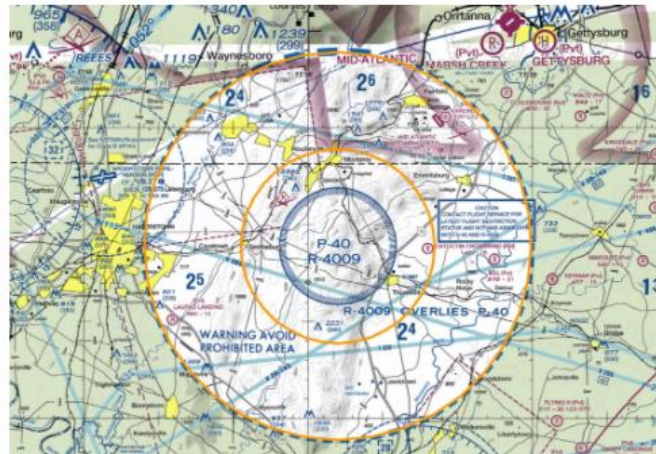
Check NOTAMS!



VIP TFR OVER WILIMINGTON, DE BEGINNING TODAY SATURDAY, MARCH 6, 2021

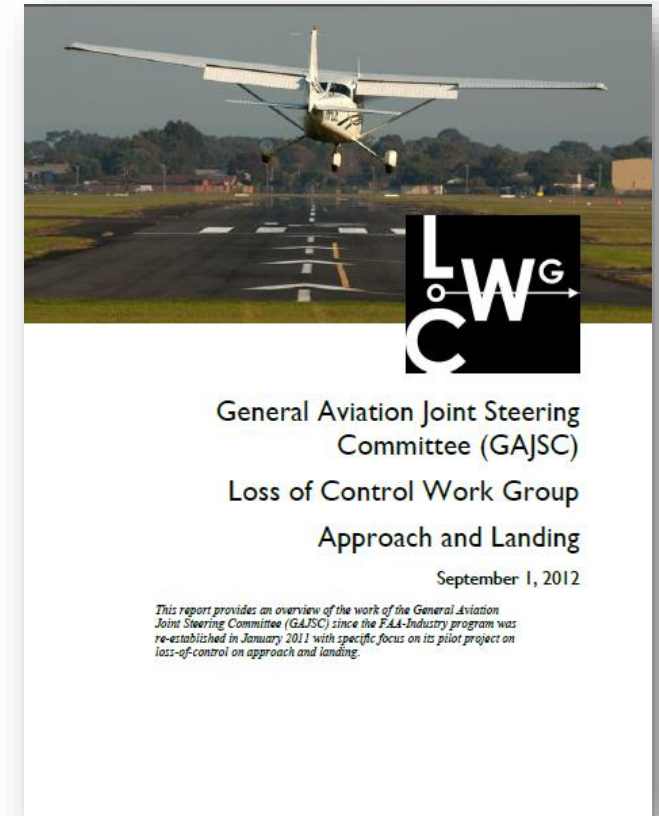


VIP TFR OVER HAGERSTOWN/THURMONT, MD BEGINNING FRIDAY, APRIL 2, 2021
(((CHANGE IN DEPARTURE TIME)))



Overview

- **GAJSC * Recommendations**
- **Determining best glide speed (s)**
- **Power off Approaches & Landings**
- **Tips & Tricks**



*GAJSC – General Aviation Joint Steering Committee



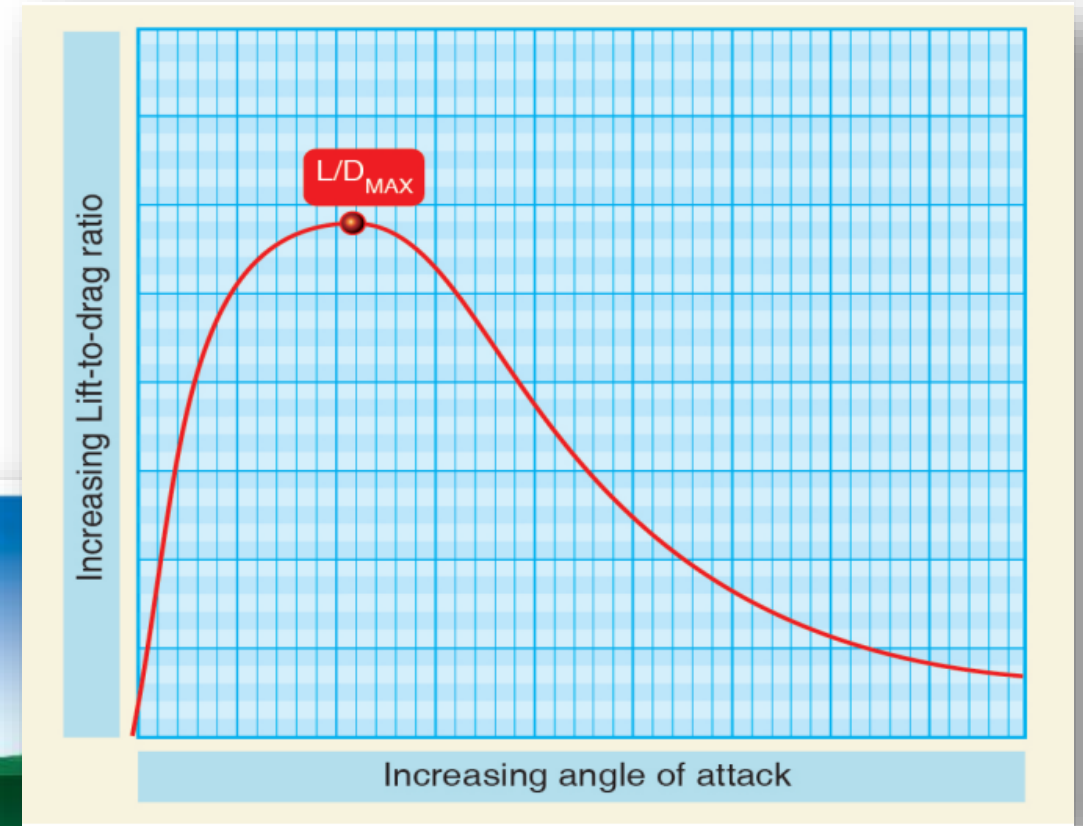
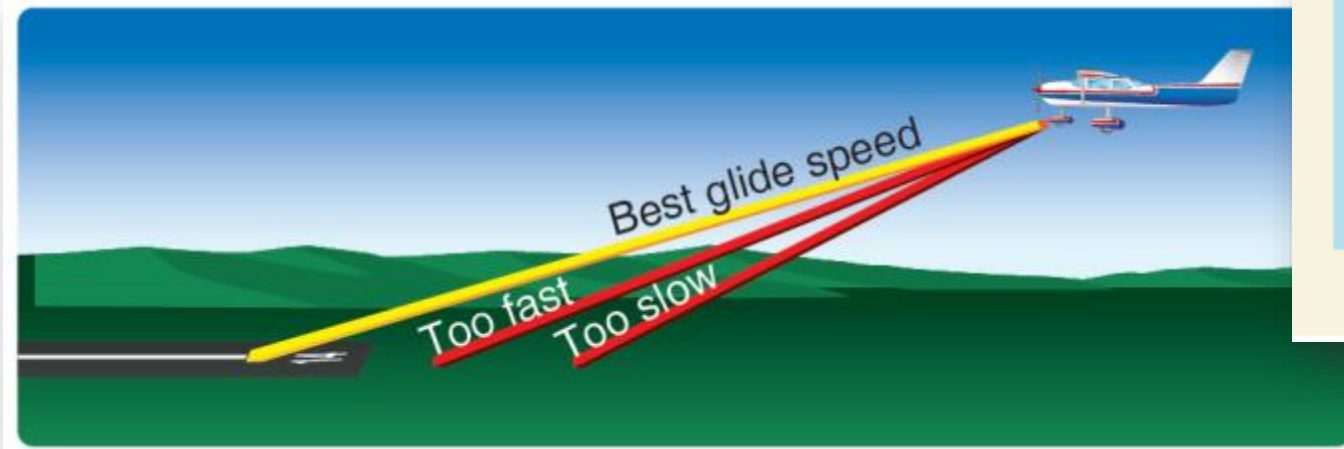
What is best glide speed?

- Speed to fly for greatest distance
- Speed to fly for greatest time
- They're the same thing
 - The longer you fly the further you go.
- **It depends**



Distance

- **Best Glide Speed**
 - Maximum Lift over Drag Ratio



Distance

- **Maximum range speed**
 - Greatest distance covered for altitude lost
 - Often referred to as best glide speed
 - Roughly half way between V_x & V_y
 - Speed Increases with weight

Aircraft	V_x	Best Glide	V_y
C172	53	65	73
AA5A	78	83	91
PA 28 161	63	73	79



Time

- **Minimum sink speed**
 - Lowest rate of descent
 - Slightly slower than maximum range speed
 - Rarely cited in POH



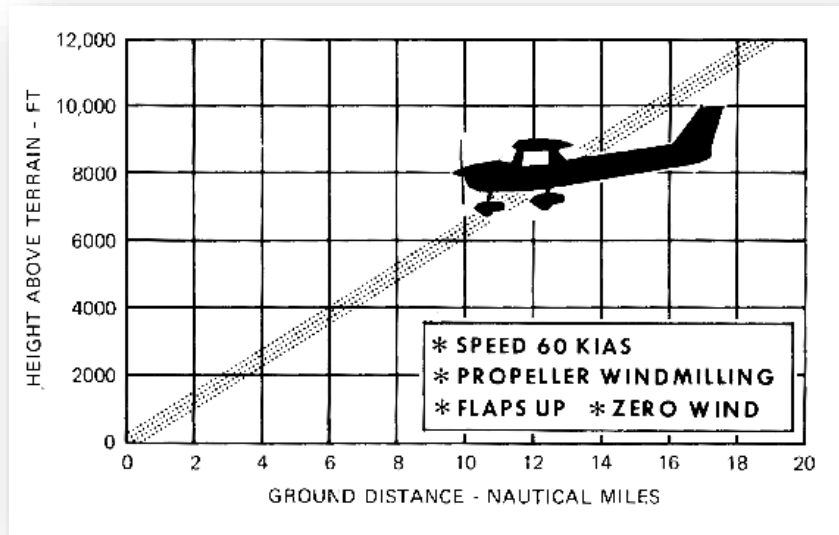
What about my airplane?

- **Experiment with your CFI**
 - Best glide speed and attitude. Note sink rate.
 - Minimum sink speed and attitude. Note sink rate.
 - Power off approaches and landings

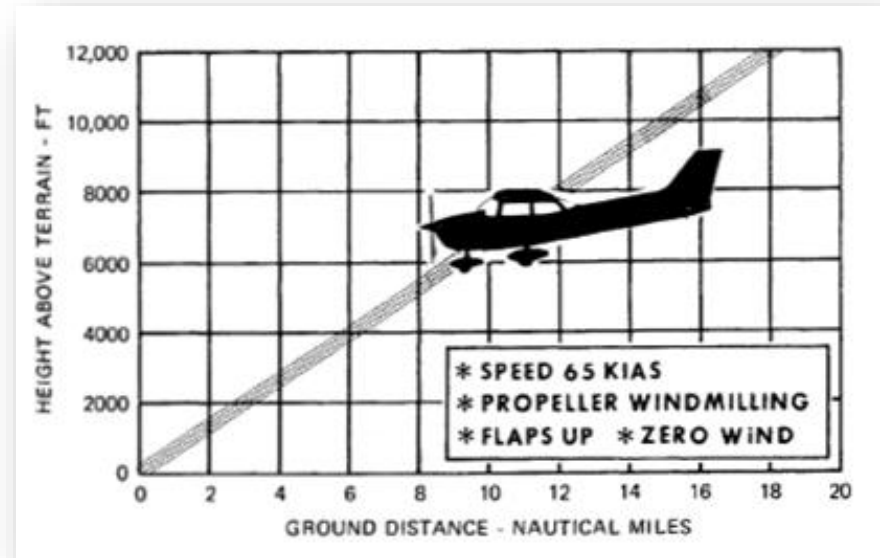


Forced landing tips & tricks

- Know how far you can glide



1.5 NM per 1,000 Ft. AGL



Forced landing tips & tricks

- **Frequent practice**
 - At typical mission weights
- **Flaps up approach to between 1st & 2nd third of runway or landing area.**



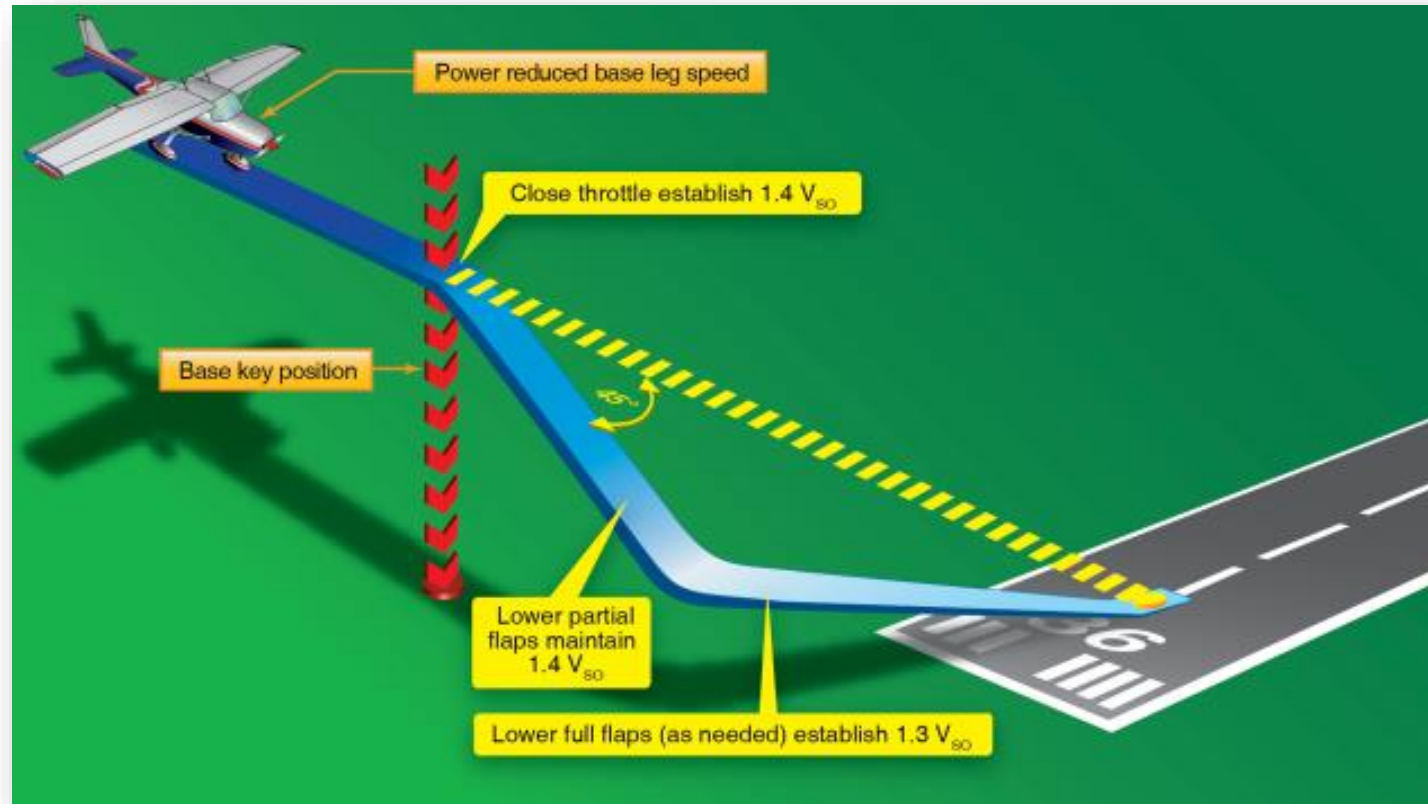
Forced landing tips & tricks

- **Frequent practice**
 - At typical mission weights
- **Flaps up approach to between 1st & 2nd third of runway or landing area.**
 - Add flaps and/or slip to move aim point closer to approach end of the runway
 - Better to land long & leave runway at slower speed than to stall or land short of the runway.

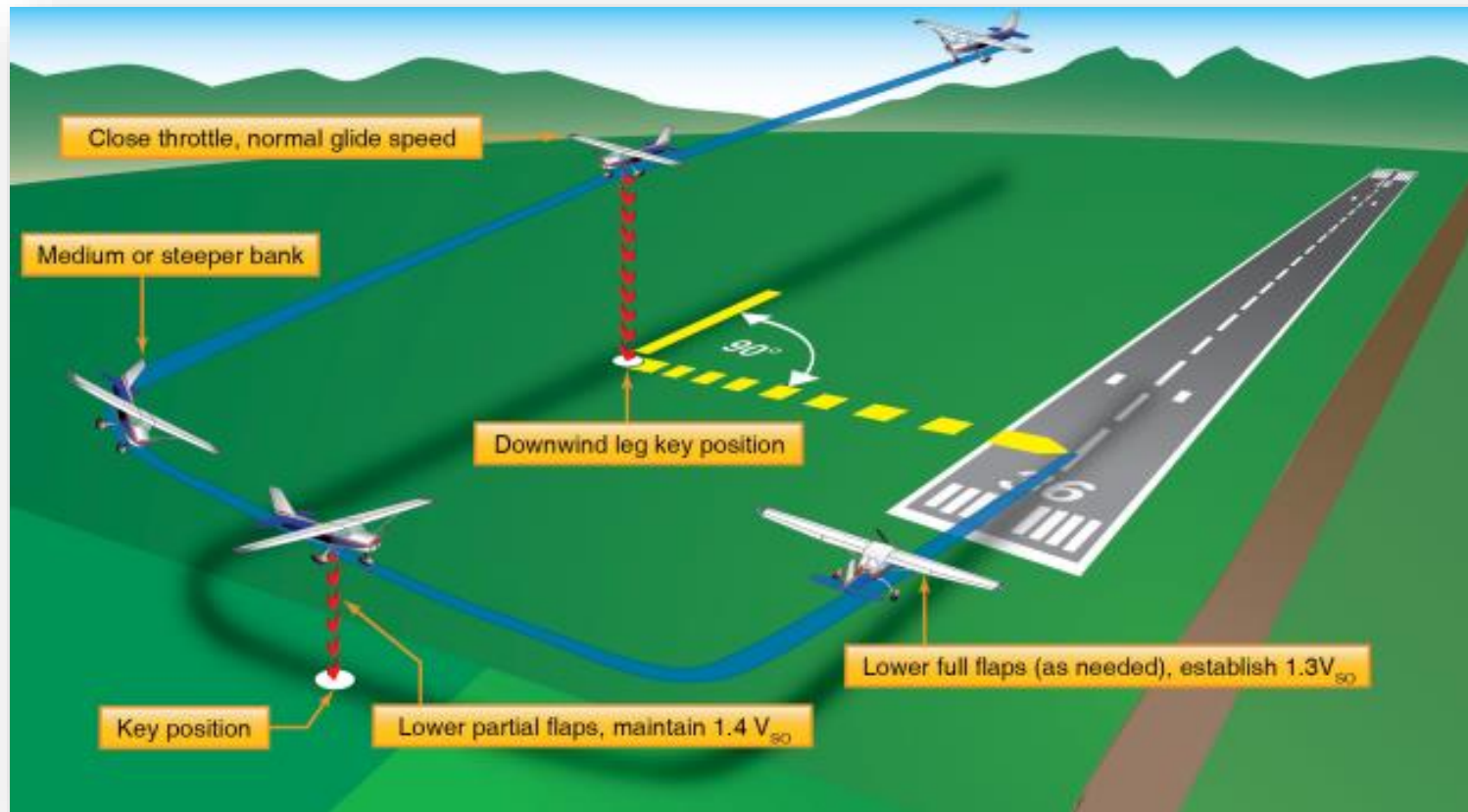


Forced landing tips & tricks

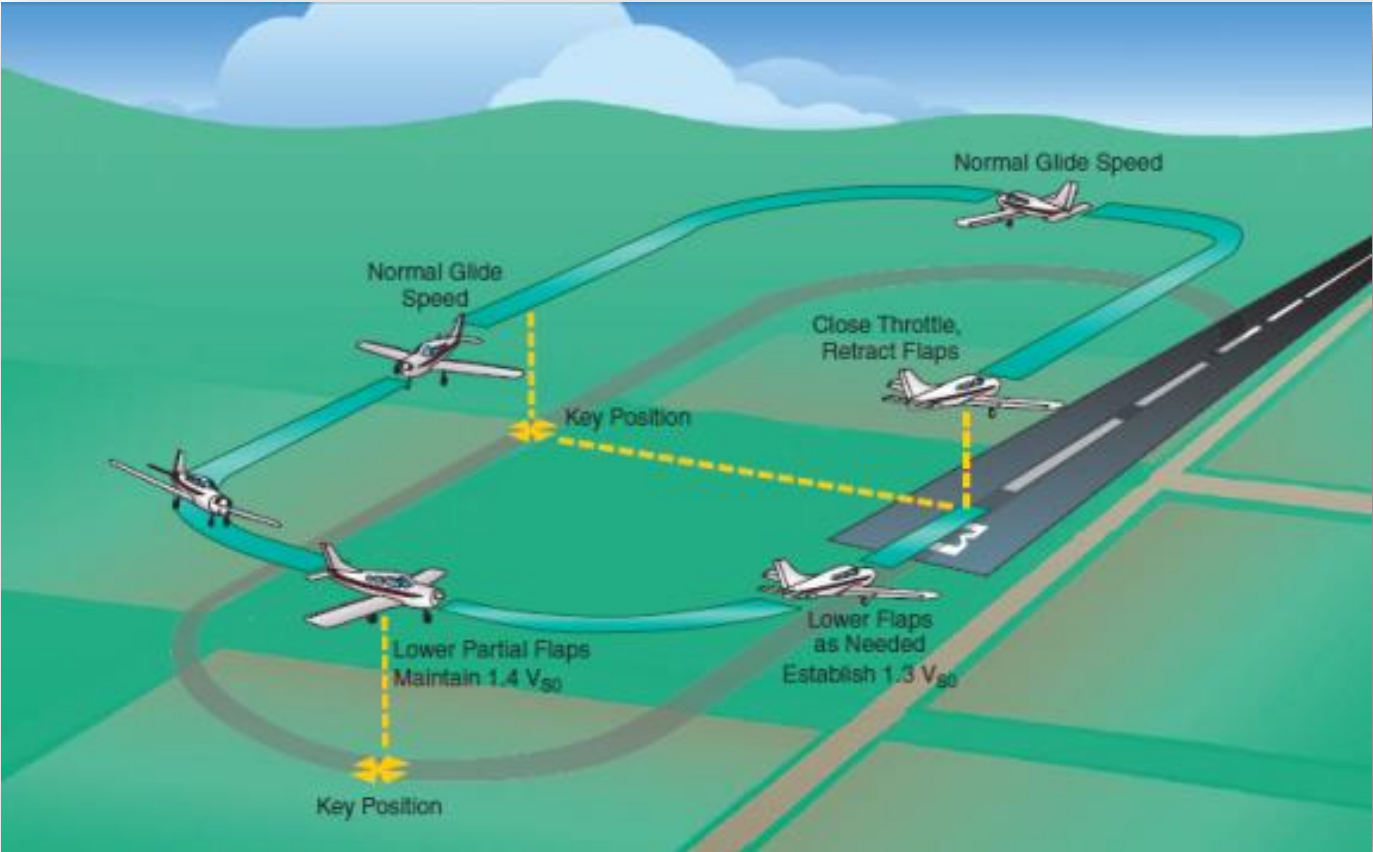
- Practice no power approaches & landings



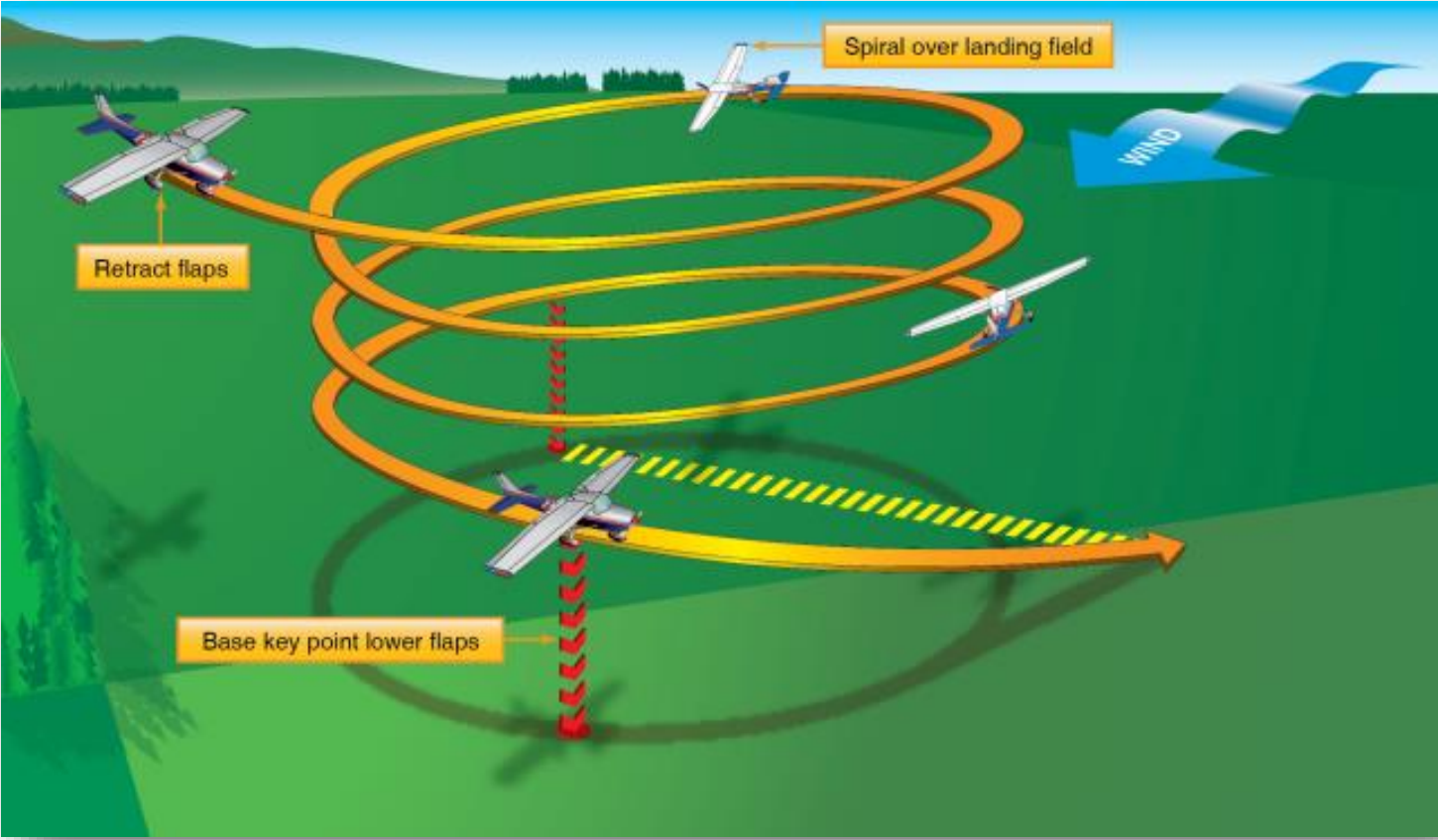
180-degree Approach



360-degree Overhead Approach



Overhead Spiral Approach



Want to learn more?

Airplane Flying Handbook

– <https://bit.ly/3wO1wMu>



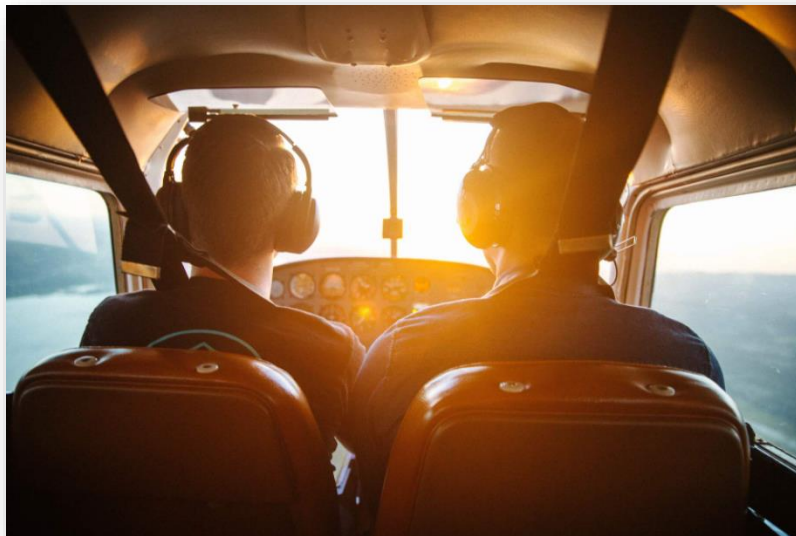
FAASTeam WINGS Pilot Proficiency Program

– <http://faasafety.gov/WINGS>



Proficiency and Peace of Mind

- Fly regularly with your CFI
- Perfect Practice
- Document in WINGS



Thank you for attending

- You are vital members of our GA safety community





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