

Student _____
Date _____

Sport Star Maneuvers Guide
by: Daniel Most

Vr- 48kts
Vy- 63kts
Vx- 55kts
Va- 80kts
V-BG 57kts

Power Settings for Maneuvers
4200RPM
Slow Cruise 4200RPM
Fast Cruise 4800-5000RPM
Landing Speed Normal 60kts
Landing Speed Short Field 55kts

Before All Maneuvers Check Area for obstacles, check fuel, engine gauges, and
CLEAR AREA OF TRAFFIC!!!

Pitch Controls Airspeed, PWR controls Alt., Rudders control Yaw
Rt. Rudder is required in a Climb and high PWR settings, Less RT rudder or LFT
rudder is required in decents or low PWR settings.
Low Engine PWR= Carb Heat Hot
High Engine PWR= Carb Heat Cold

Slow Flt.

Clear Area
Pwr 4200RPM
Carb Heat hot/ (Vary for conditions i.e hot day)
Pwr Idle
Pitch to maintain Alt.
Flaps Down Incr. in the Wht Arc
PWR to 4200/ Rt. Rudder to hold heading.
(Maintain Min airspeed without stalling A/C, Maintain heading +/-10* , Alt +/- 100ft,
Bank +/- 10* Max 45*
RECOVER
Full PWR.
Carb Heat Cold
Pitch down to maintain Alt
Retract Flaps Inc.
Return to Slow Cruise

Steep Turns

Clear Area

PWR 4200RPM

3 1 inch turns using technique to bank A/C 45*

1 inch Pitch back to maintain Alt

2 Turns of Power to Maintain A/S

Use Same process to roll out of turn on Specified heading.

3 1 inch turns in opposite direction

1 inch forward pitch to maintain ALT.

PWR 2 turns back to 4200RPM

Maintain Alt +/- 100Ft

A/S +/- 10Kts

HD +/- 10*

PWR ON STALL

Clear Area

PWR 4200RPM

Maintain coordination

Full PWR/ Rt. Rudder

Initiate 3in climb using Technique

Recognize the stall; (wing buffet or wing drop)

Keeping knees together so as not to allow for inadvertent aileron use

Recovery

Pitch to Horizon

PWR to 4200

(Min loss of ALT, Maintain HD +/- 10*)

PWR OFF STALL

Clear Area

PWR 4200RPM

Carb Heat Hot

PWR to Idle

Flaps Down Inc. (Clean or Dirty config.)

Pitch up 1 inch above horizon, using technique

Knees closed to stop potential aileron deflection

Recognize stall (Wing drop/ buffet)

Recovery

Full PWR/ RT Rudder

Carb Heat Cold

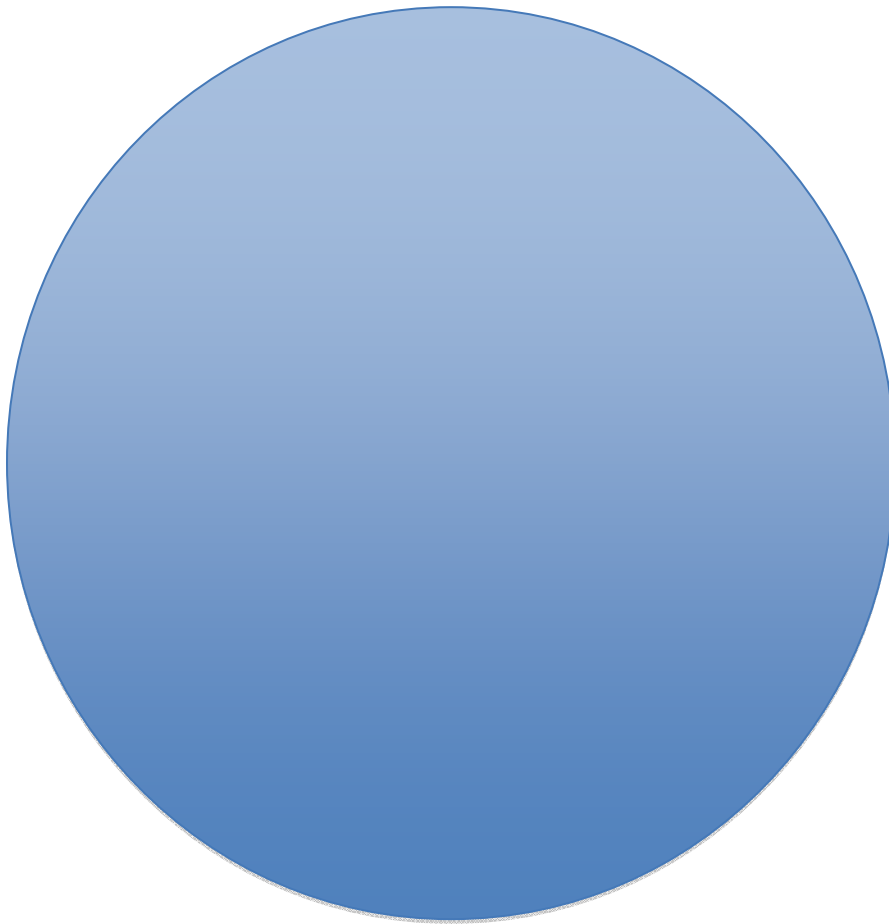
Pitch Vy

Clean up Flaps Incrementally
PWR 4200

Ground Ref:

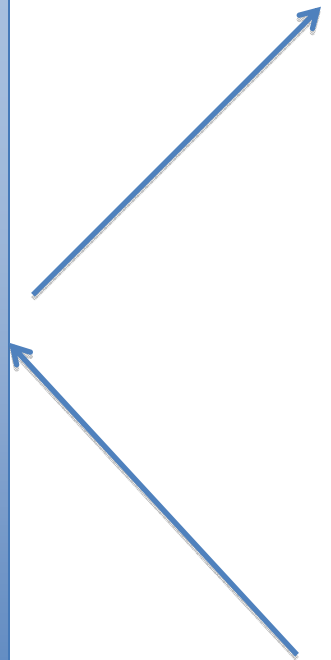
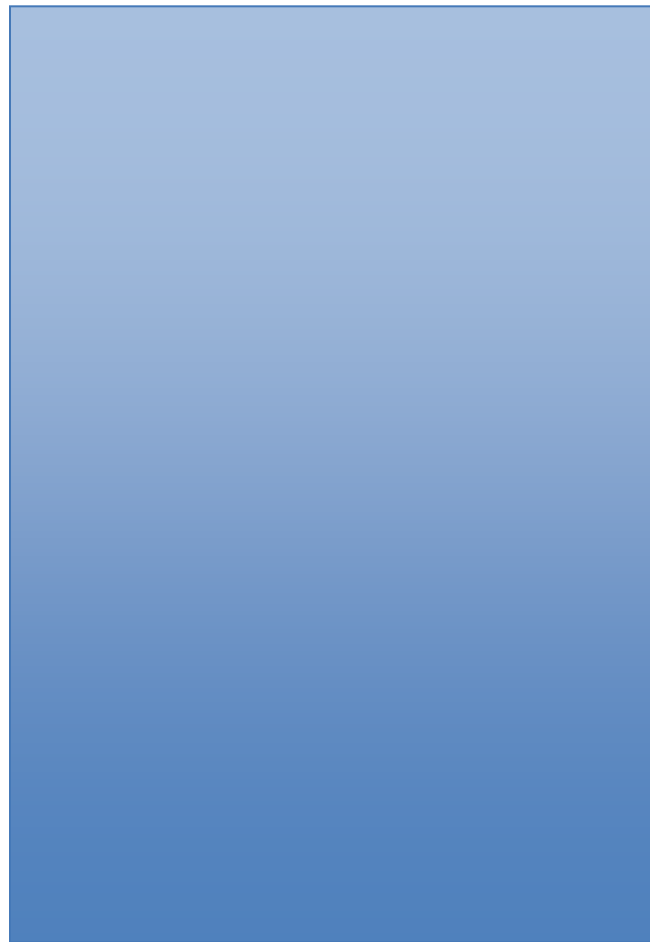
Turn Around A Point
PWR 4200
1000FT AGL

wind



Rectangular Course
4200RPM
1000Ft AGL

wind



S-Turns Across A Road

4200 RPM
1000 FT AGL

