DA40-G1000 (Ted Yin v0.6) · Throttle - 0.4" ▶ Emergency Windows - open ▶ "Prop Clear!" ▶ Forward Canopy Initial ▶ Mags. - start partially open ► Papers - A.R.O.W. ► Controls - free & correct ► Throttle - 1000 RPM • DO NOT lock/unlock rear ▶ 0il Pressure - 15 secs. door during flight ▶ Mags. - key out ▶ Electric Pump - off Shutdown ▶ Mixture - idle cutoff ▶ Master Alt. - on ▶ Throttle - idle ▶ ELT - check (121.5) ▶ Engine Inst. - no Xs ▶ Electrical - off ▶ Avionics - off ▶ Volts/Amps - [25-30] [>0] ▶ Essential Bus - off ▶ Electrical - off ▶ Fuel Pressure - 14-35 psi ▶ Avionics - off • ACL Strobes - on ▶ Mixture - lean (peak) ▶ Master - on ▶ Throttle - 1000 RPM Pre-Taxi ▶ Fuel Pump - check ▶ Mags. - off then both ▶ Fuel - note ▶ Flaps - up₁ then T/0 ▶ Mixture - idle cutoff ▶ Flaps - check & set T/0 ▶ Lights - as required ► Mags. - key out ▶ Lights/Pitot - test ► Tach Time - note ▶ Avionics - on/set ▶ Master - off ► GPS - DB date ▶ Master - off ► Hobbs Time - note ▶ Fuel Totalizer - enter Post-Flight Walkaround ► ATIS - PFD/backup/AP(?) ► ADSB Handheld - off ▶ Radio - test ► Canopy/Door - check ▶ Tiedowns/Chocks ▶ Transponder - squawk ▶ Fuel/0il - test/sample ▶ Pitot Cover ► Check - TC/AI/HSI<->MC ► Caps/Drains/Vents ▶ Gust Lock ► Clearance - obtain ▶ Surfaces/Controls ► Close Flight Plan ▶ Brakes - release/test ▶ Stall Strips/Fairings ▶ Hobbs Time - note ► Exhaust/Antennas Run-Up ▶ Check Under Seats ▶ Prop/Air Intakes x3 ► Canpoy/Door - lock ▶ Parking Brake - set ▶ Pitot/Static/Stall ▶ Post-Flight Walkaround ▶ Seat Belts - check ▶ Gear/Tires/Brakes Airspeeds (KIAS) ► Canopy/Door - lock ▶ Ties/Chocks ▶ Door Warning - off ▶ Weights ▶ Final Walkaround ▶ Flight Controls - correct • 2646/2535/2205/1874 lbs Pre-Start ▶ Instruments - scan ▶ Vr - 59 ▶ Rear Door - secure ► Alternate Static - check Vy ▶ Rudder Pedals - adjust ► AP - MET/HDG • Up - 76/73/68/60 ▶ Seat Belts ► Trim - T/0 • T/O - 67/66/60/54 ▶ Parking/Brakes - test/set ▶ Fuel Selector - fullest ▶ Best Glide ▶ Circuit Brkrs. - check ► Hdg./Alt. Bugs 76/73/68/60 ▶ Passenger - brief ▶ GPS/Status Bar/Ann. Test • 70 @ 2300 lbs ▶ Strobe (ACL) - on ▶ MFD Range/Track Up Va ▶ Avionics - off ► Comm/Nav/VOR/FP MÄM 40-227 ▶ Fuel Selector - least ▶ Mixture - rich ·no - 108 @ 2161-2535 ► Canopy - pos. 1/2 ▶ Throttle - 2000 RPM · yes - 111 @ 2284-2646 Start ► Cycle Prop x3 - 250-500 • below 2161/2284 - 94 ► Mags. L/R - 175, 50. ▶ Prime • 101 @ 2300 lbs ▶ Alternate Air - check • Mixture - idle cutoff ► Approach Speeds ▶ Engine Inst. - check • Prop - high RPM Engine Out ▶ Idle Check Friction - adjust · Up - 76/73/68/60 ► Throttle - 1000 RPM • Master Bat. - on · T/O - 74/72/66/59 ▶ Mixture - lean • Throttle - 1.2" · LDG - 73/71/63/58 ▶ Lights - as required • Electric Pump - on Normal - 73/71/63/58 ► ADSB Handheld - on Warm CO Contamination · Mixture - 1-3 sec Cold ► Cabin Heat - off · Mixture - 3-5 sec ▶ Ventilation - open

Pre-Takeoff

▶ Abort Plan/Lost Comm.

- ► Canopy/Door lock

- ▶ Fuel Selector fullest
- ▶ Flaps T/0
- ▶ Mixture rich
- ▶ Prop high RPM
- ▶ Electric Pump on
- ▶ Pitot Heat as required Review Airspeeds
- ▶ Time note/start

Takeoff

▶ "Lights: Camera: Action"

- Mixture/Prop/Throttle
- ▶ Engine Inst. green
- ▶ Vr 59; then 67-60 KIAS
- ▶ Safe Altitude Prop - 2400 RPM
- Elect. Pump off
- Ldg. Light off

Climb

- ▶ Vy (T/0)
- 67-54 KIAS
- LB minus 1.8 for each
 - 100 lbs under 2646
- ▶ Cruise
- Flaps up
- Vy: 7b-b0 KIAS ▶ Prop - 2400 RPM
- ▶ Mixture rich
- >5000 hold const. EGT ▶ Throttle - full
- ▶ Engine Inst. green
- ▶ Trim as required
- ▶ High Altitude pump on

Cruise

- ▶ Flaps up ► Throttle - 21-24"
- ▶ Prop 1888-2488 RPM
- ▶ Mixture
 - Higher Power richen
- Economy: max EGT & <=75%
- · Power: 100°F/55°C lower
- ▶ Flow Check (♠15 min)
- Trim₁ Fuel
- Mixture, Prop, Throttle
- Flaps Engine Inst.
- Pump₁ Mag•₁ Master
- ► CHT: 150-400°F ▶ 0il: 165-220°F

Descent

▶ Mixture - richen slowly

- ▶ Prop 1800-2400 RPM ▶ Throttle - as required
- ► High Altitude pump on
- ▶ Flow Check
 - <= 50°F/22.8°C pm</p>

► CHT Cool Down

Pre-Landing

- ▶ ATIS/Rwys & Patterns
- "CCGUMPSF" • G: Fuel Selector
 - · downwind/fullest
 - M: Mixture rich
 - P: Elect. Pump on
 - P: Prop high RPM

 - S: Seat Belts secure • F: Flaps - as required
 - T/O <1□B KIAS LDG <91 KIAS
- ▶ Trim as required
- ▶ Ldg. Light on
- ► Approach 73-58 KIAS Go Around

- ▶ Throttle full
- ► Vy 67-54 KIAS ▶ Flaps - T/0
- ▶ Safe Altitude
- Prop 2400 RPM
- Elect. Pump off Cruise Climb

Post-Landing

- ▶ Throttle 1000 RPM
- ▶ Mixture lean
- Flaps up
- ▶ Elect. Pump off
- ▶ Pitot Heat off
- ▶ Trim T/0
- ▶ Lights as required
- ▶ Clearance obtain

Engine Failure

- ▶ Short Flow
- Fuel Selector fullest
- Mixture full/check
- Elect. Pump on
- Alternate Air on
- Mags. check all
- ▶ Glide and Trim
 - Speed: 7L-LO KIAS
 - Ratio: 8.8, 1.45nm/lkft
- ▶ Wind and Landing Site

- ▶ Longer Flow
 - Engine Inst.
 - Short Flow Again
- ▶ Wind Restart
- Airspeed >= 70 KIAS
- Short Flow
- Mags. both • Mixture - lean and
- slowly richen
- ▶ Stationary Restart Airspeed >= &D KIAS
- Electrical off
 - Avionics off
 - Master on
- Mags• start ▶ No Restart
- Fuel Selector off
- Mixture idle cutoff
 - Mags. off • Master - off
- Belt and Seat check
- Unlatch Door Brace

C172S-G1000 (Ted v1.2) ▶ "Prop Clear!" • Mixture/Throttle ► Mags. - start ▶ Engine Inst. - green Initial ▶ Throttle - 1000 RPM ▶ Vr - 55 kts ► Papers - A.R.O.W. ▶ 0il Pressure - 30 secs. Vx - 62 kts₁ Vy - 74 kts ▶ Control Lock - off ▶ Volts/Amps - [>26] [>0] Climb / Cruise ▶ Mags. - key out ▶ Mixture - lean for taxi ▶ Mixture - idle cutoff ▶ Cruise Climb - 75-85 kts Pre-Taxi ▶ Throttle - idle • Flaps - up ▶ Avionics - off ▶ Flaps - up ► Mixture - lean >3000 ▶ Lights - as required ▶ Fuel Shutoff - on ▶ Flow Check (♠15 min) ▶ Avionics - on/set ▶ Fuel - both • Fuel₁ Trim ► GPS - DB date ▶ Master - on Flaps Tingine Inst. ▶ Fuel - note ▶ Fuel Totalizer - enter • Mixture, Throttle ▶ Flaps - down ► ATIS - PFD/backup/AP(?) • Master, Mag, Pump ▶ Lights/Pitot - test ▶ Radio - test Descent ▶ Avionics on/off - fans ▶ Transponder - squawk ▶ Mixture - richen slowly ▶ Master - off ► Check - TC/AI/HSI<->MC ▶ Throttle - as required ► Hobbs Time - note ► Clearance - obtain ▶ Flow Check ▶ Brakes - test Walkaround Pre-Landing Run-Up ► Fuel/0il - dip/sample ► ATIS/Rwys & Patterns ▶ Caps/Drains/Vents ▶ Brakes - set ▶ "CCGUMPSF" ▶ Surfaces/Controls ▶ Seat Belts - check • G: Fuel - on/both ▶ Exhaust/Antennas ▶ Doors/Windows - secure • M: Mixture - rich ▶ Prop/Belt/Air Intake ▶ Flight Controls - correct • S: Seat Belts - secure ▶ Pitot/Static/Stall ▶ Instruments - scan • F: Flaps - as required ▶ Gear/Tires/Brakes ► Alternate Static - check ▶ Trim - as required ▶ Ties/Baggage Door ▶ AP - MET/HDG ▶ Ldg. Light - on ► Final Walkaround ▶ Trim - takeoff ▶ Approach - 80-65 kts Pre-Start ▶ Fuel - on/both Post-Landing ► Hdg./Alt. Bugs ▶ Doors - secure ▶ Throttle - 1000 RPM ► GPS/Status Bar/Ann. Test ▶ Belts/Seat Track ▶ Mixture - lean ▶ MFD Range/Track Up ▶ Brakes - check, set ▶ Flaps - up ▶ Comm/Nav/VOR/FP ► Circuit Brkrs. - check ▶ Pitot Heat - off ▶ Mixture - rich ▶ Passenger - brief ▶ Trim - takeoff ▶ Throttle - 1800 RPM ▶ Beacon - on ► Mags. - 150, 50 ▶ Lights - as required ► Avionics - off ▶ Clearance - obtain ▶ Engine Inst. - check ▶ Fuel - both ▶ Idle Check Shutdown Start ▶ Throttle - 1000 RPM ▶ ELT - check (121.5) ▶ Stby. Battery - test/arm ▶ Mixture - lean ► Avionics - off ▶ Engine Ind. - no Xs ▶ Lights - as required ▶ Lights - off ▶ Volts - [E>24] [M<1.5] ► ADSB Handheld - on Beacon - on ► Amps - S<0/ann on Pre-Takeoff ► Throttle - 1000 RPM ▶ Prime: ▶ Abort Plan/Lost Comm. ▶ Mags. - off then both • Mixture - idle cutoff Fuel - on/both ▶ Mixture - idle cutoff • Brakes - secure ▶ Flaps - U-10° ► Mags. - key out • Master - on ▶ Mixture - rich ▶ Master - off • Throttle - slight ► Aux. Pump - off ▶ Tach Time - note ■ Aux Pump - on ▶ Pitot heat - as required ▶ Stby. Battery - off • Mixture - prime

▶ "Lights: Camera: Action"

Takeoff

▶ Review Airspeeds

▶ Time - note/start

·warm: D-3 sec

· cold: 3-5 sec

Aux. Pump - off

▶ Mixture - 3/4 rich

► ADSB Handheld - off ▶ Tiedowns/Chocks

Post-Flight

▶ Pitot Cover

- ▶ Fuel switch to L/R
- ▶ Gust Lock
- ► Close Flight Plan
- ▶ Hobbs Time note
- ▶ Check Under Seats
- ► Cabin / Baggage lock
- ▶ Post-Flight Walkaround
- F i Gat Finght Walkar care

Engine Failure

- ▶ Short Flow
- Fuel on/both
- Mixture full/checkElectrical Pump on
- Alternate Air on
- Mags. check all
- ▶ Glide and Trim
- Speed: LA kts
- Ratio: 9, 1.48nm/1000ft
- ▶ Wind and Landing Site
- ▶ Longer Flow
- Engine Indicators
- Short Flow Again

▶ No Restart

- Fuel off
- Mixture idle cut-off
- Prop/Throttle off
- Mags• off
- Master off
- Belt and Seat check
- Unlatch Door
- Brace
- ▶ Approach 80/70/65 kts