

## **AIRCRAFT FAMILIARIZATION AND REVIEW C-172**

Name	Aircraft make and model
	V SPEEDS
Vx	Vs
Vy	Vso
Va	Vno
Vfe	Vne
	ECOMMENDED SPEEDS
Normal take off	
Short field landing flaps 40 degrees	
Maximum cross wind take off or landing	
Steep turn entry speed	<del></del>
Chandel or Lazy eight entry speed	
Best glide speed and distance from 6000'	
	<u>WEIGHTS</u>
Empty weight	Max takeoff weight
Max landing weight	Max useful load
C. G. range at max weight	<del></del>
Max baggage compartment weight	
	<u>AIRFRAME</u>
Describe general type of construction	
Describe how each of the following controls s	surfaces are operated
Rudder	
Ailerons	
Elevator	
Flaps	
Noise wheel	



## **ENGINE**

Make and model	Engine horsepower
Engine type	
Oil capacity and type	
	DRODELLED
Make and model	<u>PROPELLER</u>
Diametei	
	BRAKE SYSTEM
	FUEL SYSTEM
Total fuel capacity	Usable fuel capacity
Fuel type	Fuel color
Describe the fuel system i.e. the number of dra	ains, vents and how fuel is delivered to the engine.
Describe the proper leaning procedures	
_	TECTPICAL CYCTERA
_	LECTRICAL SYSTEM
What is the system voltage	nal custom
Describe the major components of the electric	cal system
Describe the engine starter and ignition system	n
Describe the master switch and how it works	



## **ENVIRONMENTAL CONTROLS**

Describe how the airplane is heated and cooled.			
<u>INSTRUMENTATION</u>			
What instruments operate off the vacuum system			
What instruments operate off the Pitot- Static system			
AIRCRAFT PERFORMANCE			
Determine the take off distance, ground roll and over a 50' obstacle with the following conditions. PA 300 Temp @ 25C and calm winds.			
Ground roll over 50' obstacle			
Determine the landing distances for the same conditions as above.  Ground roll over 50' obstacle			
Compute the time, fuel burn and distance climbing to 8000' from sea level given the takeoff conditions abound the fuel burn @ 75% power after reaching 8000'			
Time			
Fuel			
Distance			
Fuel consumption @ 75%			
PERFORM A WEIGHT AND BALANCE COMPUTATIONWITH			
Pilot 200 lbs			
Front seat passenger 200 lbs			
One back seat passenger at 170 lbs			
Full Fuel			
Baggage at 50 lbs in the forward baggage area			
Are we below our max weight?			
What is the center of gravity?			

Is the center of gravity within limits? \_\_\_\_\_



## **EMERGENCY PROCEDURES**

What are the memory items for the following Emergency procedures?

ENGINE FAILURE ON TAKEOFF	C
1	9
2.	10
3	
4.	EMERGENCY LANDING
5.	1
	2
ENGINE FAILURE AFTER TAKEOFF	3
1	4.
2.	5
3.	6.
4.	7.
5.	8.
6	9.
ENGINE FAILURE IN CRUISE	ENGINE FIRE IN FLIGHT
1.	1
2	2
3	3
4	4
5	5
6	6
ENGINE FIRE AT START	ELECTRICAL FIRE IN FLIGHT
1	1
If engine starts.	2
2	3
3	4
If engine fails to start.	5
4	If fire is out and elec. power is required
5	6
6	7
7	8
8	9.
a	10.
h	



<u>CABIN FIRE</u>	WING FIRE
1	1
2	2
3	3
4	4
5	
OVERVOLTAGE LIGHT ILLUMINATES	AMP METER SHOWS DISCHARGE
1	1
2.	
3.	
4.	
5.	
6.	
	2.
LANDING WITH A FLAT TIRE	
1	_
2	
INADVERTENT ICING	
1	
2	
4	
_	
•	
7	
8	
9	
10.	
11.	
12.	



What inspections are required for an aircraft to be considered airworthy and legal	to fly?
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What documents must be in the airplane at all times?	