Schedule

Ground instruction – 5 minutes

Material

Cloud Bases

(Temp in C – Dew Point °C) / 2.5 * 1000 = AGL
(Temp in C – Dew Point °C) * 400 = AGL
(Temp in F – Dew Point °F) / 4.4 * 1000 = AGL

Standard Turns

360 degrees -> 2 min
180 degrees -> 1 min
30 degrees -> 10 sec
3 degree -> 1 sec

Celsius to Fahrenheit

((9 * °C) / 5) + 32 = °F
(9/5 * °C) + 32 = °F

Lapse Rates

Standard air is -2°C / -3.5°F per 1000’ increase in altitude
Dry air is -3°C / -5.4°F per 1000’ increase in altitude

Fuel Needed

(Distance in NM / Speed in kts) * gal/hr = gallons needed