



VICTORIA FLYING CLUB

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Spirals

- Review **Turns and Spins**
- Definition and Motivation
- **Spiral Dives**
- Summary and Questions
- Pre-Flight Briefing



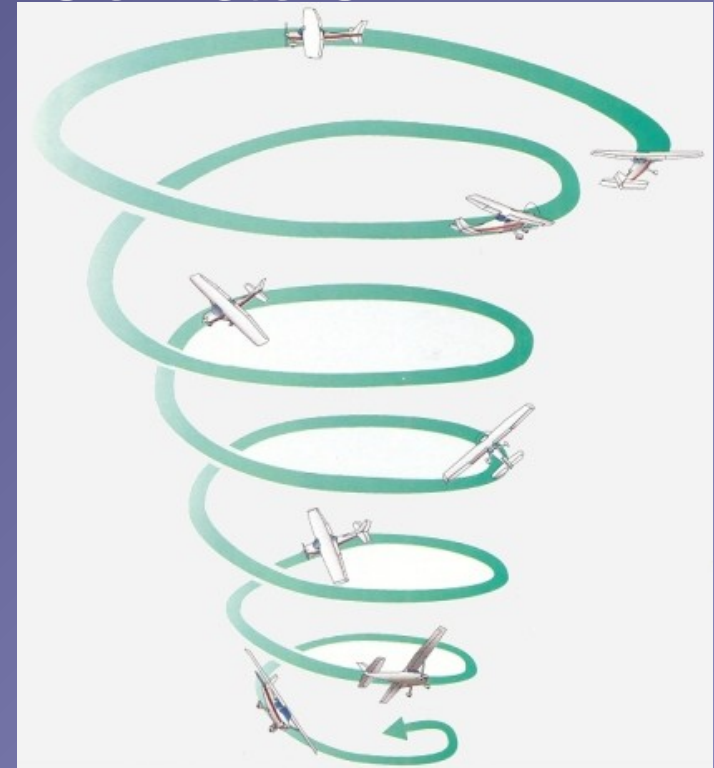
Review Turns and Spins

- Why does the inner wing create less lift than the outer wing during a level turn?
- What is the effect of the difference in lift between the inner and outer wing and what corrections need to be applied?
- What are the phases of a spin?
- Mentally perform a spin entry and recovery.



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Definition and Motivation



- Descending turn with increasing angle of bank
- Increasing **airspeed** and **rate of descent**
- High load factor during recovery



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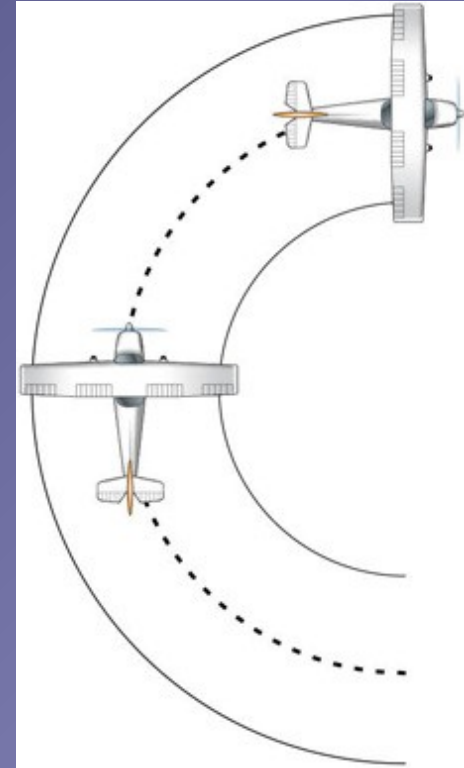
Safety Considerations

- **HASEL, lookout** ahead and below
- Significant **loss of altitude**
- Significant **acceleration** and **gain in airspeed**
- Reduced airspeed for entry
- Modified transfer of control (only recovery)
- **Recovery** above **2000' AGL**



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Spiral Entry – Turn



- Establish a **level turn**
- Apply *only* **elevator** back-pressure in the *attempt* to hold altitude
- Do *not* correct any **overbanking** tendency



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Spiral Entry – Spin

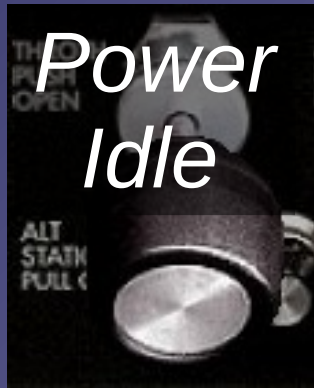


- Enter **slow flight** *without* reaching imminent stall
- Perform an *attempt* to enter a **spin**



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Spiral Recovery



- Reduce **power** to **idle**
- Roll **wings level** (opposite spiral direction)
- **Ease out** of dive
- Establish **climb attitude** and set power to regain **altitude**
- Establish **cruise attitude**, set **cruise power** and **trim**



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Spiral Dive





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Instruments



- **Turn coordinator** may help to determine direction of spiral
- **Airspeed** increases significantly
- **Rate of descent** increases significantly



Summary / Quiz

- Define a spiral and explain the difference between a spin and a spiral.
- Mentally perform a spiral recovery and state all observations and required actions.
- Why are ailerons used to establish wings level first and not simultaneously with elevator?
- What situations can potentially lead to an inadvertent spiral?



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Pre-Flight Briefing

- Exercise
- Training Area
- Departure and Arrival Procedures
- Weather Briefing / NOTAMs
- Aircraft and Documents
- Time and Fuel Requirements
- Safety Considerations and Responsibilities



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Spiral Dives (Ex. 14, LP. 7)

- Objective
- Review
- Motivation
- Howto
- Summary / Questions
- Preflight Briefing