

Aeronautical Knowledge Progress Record

Student Name: _____

| | | Receive Questions Read | Instruction | Complete | |
|---|------|---------------------------------------|-------------|----------|--|
| 1 - Glider Familiarization | | | | | |
| I | 1.1 | The Glider † | | | |
| | 1.2 | Flight Manual † | | | |
| II | 1.3 | Documentation † | | | |
| 2 - Airport Familiarization | | | | | |
| II | 2.1 | Operating Procedures † | | | |
| | 2.2 | Airport Markings | | | |
| | 2.3 | Airport Lighting | | | |
| | 2.4 | Airport Traffic | | | |
| | 2.5 | Wake Turbulence | | | |
| 3 - Aerodynamics | | | | | |
| I | 3.1 | Nomenclature | | | |
| | 3.2 | Three Forces | | | |
| | 3.3 | Airspeed Limits | | | |
| | 3.4 | Turning Flight | | | |
| | 3.5 | Load Factor | | | |
| | 3.6 | Stability | | | |
| 4 - Performance | | | | | |
| II | 4.1 | Glide Ratio † | | | |
| | 4.2 | Glider Polars † | | | |
| | 4.3 | Effects of Wind † | | | |
| | 4.4 | Effects of Lift/Sink † | | | |
| | 4.5 | Effects of Wing Loading † | | | |
| 5 - Flight Instruments and Systems | | | | | |
| I | 5.1 | The Atmosphere | | | |
| | 5.2 | Primary Instruments | | | |
| II | 5.3 | Secondary Instruments | | | |
| | 5.4 | Other Flight Systems | | | |
| 6 - Weather for Soaring | | | | | |
| II | 6.1 | The Atmosphere | | | |
| | 6.2 | Dew Point | | | |
| | 6.3 | Atmospheric Stability | | | |
| | 6.4 | Clouds | | | |
| | 6.5 | Fog | | | |
| | 6.6 | Precipitation | | | |
| | 6.7 | Weather Systems | | | |
| | 6.8 | Describing the Weather | | | |
| | 6.9 | Thermal Soaring Weather † | | | |
| | 6.10 | Ridge Soaring Weather † | | | |
| | 6.11 | Wave Soaring Weather † | | | |
| | 6.12 | Convergence Lift † | | | |
| | 6.13 | Predicting Soaring Weather † | | | |
| 7 - Aviation Weather Services | | | | | |
| III | 7.1 | Sources of Weather Services | | | |
| | 7.2 | Weather Briefings | | | |
| | 7.3 | Observations | | | |
| | 7.4 | Forecasts | | | |
| | 7.5 | In-Flight Aviation Weather Advisories | | | |

Completion of Phases I and II required before solo. Items marked † required for transition pilots.

8 - Medical Factors

| | | Review Questions | Read | Instruction | Complete |
|-----|-----|----------------------|------|-------------|----------|
| III | 8.1 | Physiological Issues | | | |
| | 8.2 | Mental Issues | | | |
| | 8.3 | Chemicals | | | |

9 - Regulations

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|-----|-----|-------------------------------|--|--|--|
| II | 9.1 | Definitions and Abbreviations | | | |
| | 9.2 | Maintenance Requirements | | | |
| | 9.3 | Certification of Pilots | | | |
| | 9.4 | General Operating Rules | | | |
| III | 9.5 | Accident Reporting | | | |

10 - Flight Publications

| | | | | | |
|-----|------|---------------------------------------|--|--|--|
| III | 10.1 | Federal Aviation Regulations (FARs) | | | |
| | 10.2 | Aeronautical Information Manual (AIM) | | | |
| | 10.3 | Notices to Airmen (NOTAMS) | | | |
| | 10.4 | Airport/Facility Directory (A/FD) | | | |
| | 10.5 | Advisory Circulars (ACs) | | | |

11 - Airspace

| | | | | | |
|-----|------|-----------------------|--|--|--|
| II | 11.1 | Why Have Airspace? | | | |
| | 11.2 | Controlled Airspace | | | |
| III | 11.3 | Uncontrolled Airspace | | | |
| | 11.4 | Special Use Airspace | | | |
| | 11.5 | Other Airspace | | | |

12 - Aeronautical Charts and Navigation

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|-----|------|-----------------------------|--|--|--|
| III | 12.1 | Latitude and Longitude | | | |
| | 12.2 | VFR Aeronautical Charts | | | |
| | 12.3 | Reading Aeronautical Charts | | | |
| | 12.4 | Navigation | | | |

13 - Radio Communications

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|----|------|-------------------------|--|--|--|
| II | 13.1 | Radio Technique | | | |
| | 13.2 | Who Are You Talking To? | | | |
| | 13.3 | When to Use the Radio | | | |

14 - Personal Equipment

| | | | | | |
|----|------|---------------------|--|--|--|
| II | 14.1 | Attire for Flying † | | | |
| | 14.2 | Food and Water † | | | |
| | 14.3 | Parachutes † | | | |
| | 14.4 | Survival Gear † | | | |

15 - Cross-Country Soaring

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|-----|------|--------------------------|--|--|--|
| III | 15.1 | Glide Slope Management † | | | |
| | 15.2 | Cross-Country Supplies † | | | |
| | 15.3 | Sped-to-Fly Theory † | | | |
| | 15.4 | Getting Started † | | | |
| | 15.5 | Choosing a Route † | | | |
| | 15.6 | Flying the Route † | | | |
| | 15.7 | Off-Field Landing † | | | |
| | 15.8 | Retrieve † | | | |
| | 15.9 | Crew Duties † | | | |

16 - Aeronautical Decision Making

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|----|------|-----------------------|--|--|--|
| II | 16.1 | Situational Awareness | | | |
| | 16.2 | Judgment | | | |
| | 16.3 | Self-Discipline | | | |

Completion of Phases I and II required before solo. Items marked † required for transition pilots.