**LESSON PLAN**

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| **Lesson** | Take Off & Climb | **Instructor** |  | **Class/Group** |  |
| **Location** | Maps & Simulation Room | **Date / Time** | / | **Equipment** | Flight Sim |

**INTRODUCTION**

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| **Interest** | To develop your piloting skills in preparation for a Gliding Scholarship in the Vigilant | |
| **Need** | To learn how to take off from an airfield. | |
| **Title** | Take Off & Climb **REF – FTP 124 (P21)** | |
| **Revision** | * Taxying * Attitudes * Transition | * FRC’s * Co-ordinated Controls * Airbrakes |
| **Objectives** | * By the end of this lesson you will be able to:   + To take off and enter the climb | |
| **Scope** | This lesson will last 1 hour | |
| **Handouts** |  | |

**DEVELOPMENT**

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| **Content** | **Notes** |
| Flight Simulator Scenario: The simulator should be launched using the Grob G109B Vigilant at an appropriate airfield in a parking spot. | |
| Each exercise should be followed by the cadet(s) practicing that exercise. | |
| **1. Airmanship.** | 5 min. FRC’s and lookout checks are to be done. |
| **2.a. Lining Up.** | 5 min. revise taxying, check circuit, wind direction. |
| **2.b. Ground Roll.** | 15 min. keeping ruder straight, smooth full throttle. |
| **2.c. Lifting Off.** | 15 min. climb attitude once 55 kts is achieved. |

**CONSOLIDATION**

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| **Summary**  The Cadet(s) have now learnt how to take off from an airfield successfully. |
| **Test Learning**  Instruct the cadet to taxy to a runway and then take off once cleared. |
| **Restate Objectives**  By the end of this lesson you will be able to:   * + To take off and enter the climb |
| **Student Questions** |
| **Review and Look Forward**  Next lesson: Medium Turns  AIM. To turn onto specific features using up to 30º of bank |