

## **Intensive Study in Aircraft Piloting Grades 9th-11<sup>th</sup>**

Aviation is a broad industry with many career possibilities from piloting, to Air Traffic Control, to Aerospace Engineering to support services like Culinary Arts. There is something for everyone in the Aviation Industry. We will give a broad overview of the industry and all the different types of careers that are possibilities for students to start considering.

After giving broad overview, the focus of this class will be learning about aerodynamics of how aircraft fly and are controlled. This will include unusual attitude characteristics of flight, how entry is made and how to recover. This knowledge is an invaluable base of knowledge if pilot training is pursued or for any type of career in Aviation. You will also learn Aircraft Systems, Weather, the U.S. Air Traffic Control system, Airport Environments and Federal Aviation Regulations. All these knowledge areas are requirements for passing the FAA Private Pilot Knowledge exam and are a base set of knowledge for any discipline within the aviation industry.

Each student will get an introductory flight lesson in a Diamond DA20 aircraft where they will complete the first lesson in the Crosswinds Aviation Private Pilot Syllabus. This lesson will include the following tasks: Passenger Briefing, Cockpit Management, Engine Starting, Radio Communications, Taxiing / Brake Check, Before Takeoff Check, Normal Takeoff & Climb, Aircraft Flight Instruments, Climb / Level Off, Straight & Level Flight / Use of Trim, Pitch / Power Coordination, Shallow Banked Turns, Descents / Level Off, Traffic Pattern Operations, Collision Avoidance, Normal Approach & Landing, After Landing Checks, Parking, Securing & Proper Tie Down.