



## **Reality Check: Experience a Classroom Lesson**

You've seen it on paper, but what does a high school aviation lesson look like in practice? Find out when you observe a classroom teacher and an AOPA Foundation Curriculum developer deliver an entire lesson from start to finish, highlighting the rigor and fun of a typical class session and offering tips based on their own real-world experience.

## **Aviation Careers: More Than Airline Pilots**

Not every student dreams of becoming an airline pilot. The great news is that there are myriad aviation careers beyond the airline flight deck. You'll meet professionals working in various aviation fields and learn about what their jobs entail and how your students can follow in their footsteps.

## **Beyond the Basics: Enhancing the Classroom Experience**

Aviation industry representatives show some of the most creative ways to enhance classroom instruction and motivate students, including flight simulators, drone construction, and even building a real airplane!

## **Building Postsecondary Partnerships: Dual Enrollment and Articulation Agreements**

Looking for ways to help students accelerate their journey to the aviation workforce? A panel of education experts will discuss how their institutions have built relationships with high schools to offer postsecondary credit options for students.

## **Changing the Face of Aviation: Diversity, Equity, and Inclusion**

Aviation industry and educational experts will discuss best practices for reaching out to populations historically underrepresented in aviation and how all students can learn about and prepare for careers in aviation and aerospace.

## **Introducing the AOPA Foundation High School Aviation STEM Curriculum**

Curious to hear more about AOPA's curriculum and how it could transform your classroom? Learn about the breadth, rigor, and fun of the AOPA Foundation High School Aviation STEM Curriculum in this high-level overview of the engaging activities and comprehensive teaching materials included within it and the support available to those who teach it.

## **Level Up: Growing Your High School Aviation Program**

Veteran teachers and administrators from established aviation programs discuss how they built collaborative partnerships with local aviation community members and organizations. Participants will learn strategies for expanding the classroom walls to the airport and beyond.

## **Preparing for and Taking FAA Knowledge Tests**

The FAA private pilot, remote pilot, and ground instructor written tests can seem shrouded in mystery for high school students and teachers. What do the tests look like? What study-aid products are available? How should you manage instructor signoffs for your students? Pull back the curtain on the FAA examination process by learning more about knowledge tests.

## **Fit to Fly: FAA Medical Certifications**

Do you need to be in perfect health to be a pilot? What are the medical requirements? Are there different medical challenges facing teens and adults? Help yourself and your students to navigate the medical certification process with answers to these questions and more.

## **From Air to Space: NASA Classroom Resources**

AOPA resources are exceptional, and NASA's resources are out of this world! Join Cindy Hasselbring of the NASA Office of STEM Engagement as she discusses the wide range of content, materials, and connections that NASA has to offer educators.

## **Preflight Planning: How to Start a New High School Aviation Program**

Your school wants to start an aviation program that prepares students for STEM career success, but how do you get from a great idea to the first day of classroom instruction? Veteran staff members from AOPA Foundation schools will share strategies for and answer questions about pitching, planning, and initiating high school aviation programs.

## **Hands-On with the Curriculum: Grade 9 Activities**

Engaging activities and problem-based learning are at the core of the AOPA Foundation High School Aviation STEM Curriculum. Try a selection of fun student activities found in our grade 9 lessons!

## **Hands-On with the Curriculum: Grade 10 and 11 Activities**

Engaging activities and problem-based learning are at the core of the AOPA Foundation High School Aviation STEM Curriculum. Try a selection of the fun student activities found in our grade 10 and grade 11 lessons!

## **Aviators Wanted: The United States Air Force**

Where can the United States Air Force take your students? In this session, Air Force representatives will discuss how the Air Force can help students discover their skills, earn a degree, and take their careers to new heights.

## **Join the Club: Airplane, Drone, and Aviation Interest Clubs**

Creating a high school flying club is feasible and can also be a great addition to your school's aviation program. High schools around the country have clubs where students build and fly airplanes, design and race drones, and much more. Learn the steps to creating a fun and safe flying club from AOPA's Flying Clubs Initiative team.

## **Practically Speaking: Using Drones in the Classroom**

Flying drones in class is a lot of fun, but these machines are more tools than toys. This session will focus on the practical side of bringing drones into the classroom, covering drone selection, accessories worth having on hand, drone maintenance, classroom and materials management, and safety.

## **Professional Pilot Pathways: Ask the Experts**

In the face of a deepening pilot shortage, airlines are rapidly creating new and innovative ways for aspiring

pilots to begin their careers. Join university and airline recruiters and executives who will highlight some of the new pathways to the flight deck.

### **Cleared for Takeoff: Flying Opportunities for Your Students**

Your students have learned about the theories of flight in the classroom, but how can they put them into practice? Meet representatives from aviation organizations that can help your students take to the skies!

### **Flying Drones for a Living: Entrepreneurship and the Workforce**

Earning a remote pilot certificate is a milestone achievement that allows those as young as 16 to be paid to fly drones. But what options are available to students who pass the test? What kinds of drone businesses can a young entrepreneur start? What other drone careers exist today? Our experts will answer these questions and more.

### **The AOPA Drone Pathway: From Curriculum to Careers**

This overview of the AOPA Foundation's drone curriculum gives you an inside look at how our rigorous, hands-on series of UAS Pathway CTE courses are designed to take students new to drones and make them commercial operators with the certifications, knowledge, and experience necessary to thrive in today's career market.

### **From the Ground Up: The Flight Training Process**

This session is your one-stop-shop for everything you ever wanted to know about the flight training process. One of AOPA's own Certificated Flight Instructors will detail the steps on the journey from discovery flight to certificated pilot.

### **Questions on the Fly: Q&A with AOPA Curriculum Teachers, Admins, and Students**

You've had a wonderful time at the Symposium and learned a lot, but you still have questions. This session is your chance to get answers from the experts who live the program every day—AOPA Foundation Curriculum teachers, administrators, and students.

### **Going Further: Free Classroom Resources from National Aviation Organizations**

Did you know that the FAA and other national organizations have a wealth of aviation-oriented STEM resources that can supplement the AOPA Foundation's curriculum, provide your students with after-school aviation experiences, and introduce elementary and middle school students to aviation? Join a panel of experts from the FAA, Civil Air Patrol, Commemorative Air Force, and other national aviation organizations to learn about their free resources.