



# Denbigh High School Aviation Academy

May 23, 2023

NEWPORT NEWS



PUBLIC SCHOOLS



# AVIATION ACADEMY





# What is Denbigh's Aviation Academy?

- Four year magnet program that develops and enhances the interests and skills of students
- Focuses on STEM, Aviation and Aerospace
- Project-based learning
- 235 students



# 2022-2023 Course Pathways

Pathway	9 <sup>th</sup> Grade Aviation Course	10 <sup>th</sup> Grade Aviation Course	11 <sup>th</sup> Grade Aviation Course	12 <sup>th</sup> Grade Aviation Course
Aviation Technology	Aerospace Technology I	Aerospace Technology II	Aviation Maintenance Technology I	Honors Aviation Maintenance Technology II
Aviation Flight Operations	Aerospace Technology I	Aviation Pilot Training I	Honors Aviation Pilot Training II	Honors Unmanned Aerial Systems
Aerospace Engineering	Introduction to Engineering Design	Honors Digital Electronics	Aerospace Engineering	Honors Engineering Design & Development

# Goals

- Acquire transferrable skills and knowledge used in the industry
- Benefit from specialized, project-based courses
- Provide opportunities to earn industry certifications
- Engage students in internships, mentorships, and job shadowing



# Industry Certifications Offered

- Workplace Readiness Skills Assessment for the Commonwealth
- FAA Private Pilot Written Test
- FAA 107 Unmanned Aircraft General (2022-2023)
- Project Lead the Way End of Course Tests
  - Introduction to Engineering Design
  - Digital Electronics
  - Aerospace Engineering



# Work-Based Learning Experiences

- Field Trips
- Guest Speakers
- Mentorships
- Job Shadowing & Internships
- Competitive Events



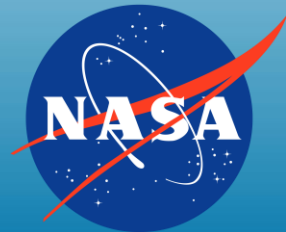


# Connecting Curricula With Partners

## HUNCH



## Refurbishing Model



# Work-Based Learning Experiences

## Elementary & Middle School Students

- Career Days / Guest Speakers
- Special Events
  - STEM Activities
  - Engineering Design Challenge
- Tours of Aviation Academy





# Taking Off With UAS

The Next Economic Opportunity

NEWPORT NEWS



PUBLIC SCHOOLS

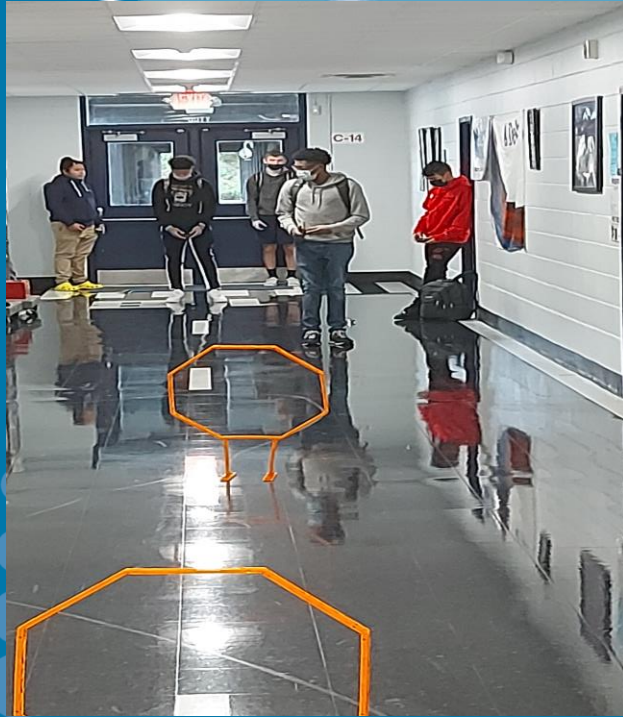
# Our UAS Lab Connects Skills



# Our UAS Lab Connects Skills



# Our UAS Lab Connects Skills



# Contact Info



Aaron Smith, Ph.d.

757.886.7700 Ext - 24695

[Aaron.smith@nn.k12.va.us](mailto:Aaron.smith@nn.k12.va.us)

