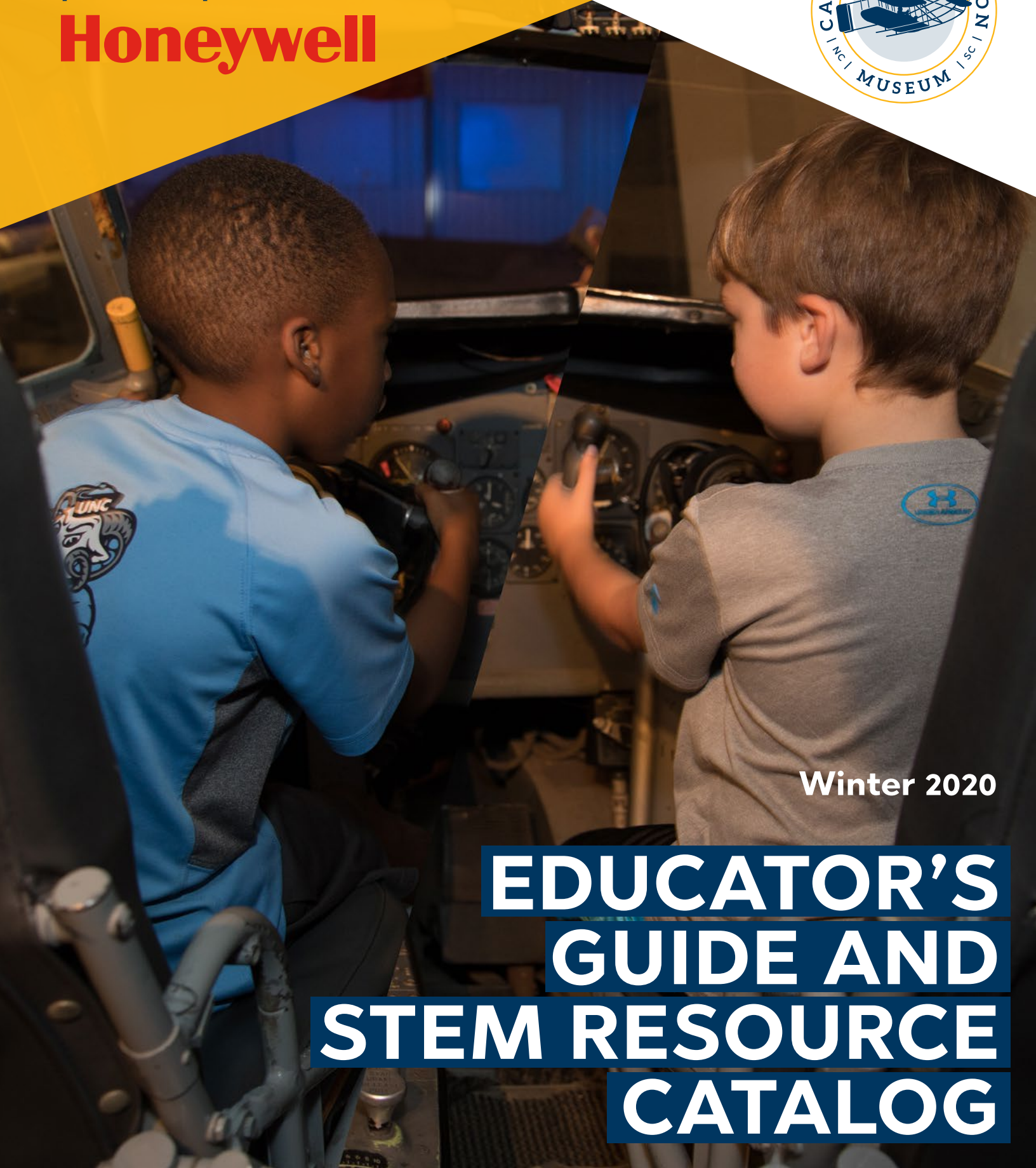


Presented in
partnership with

Honeywell



Winter 2020

EDUCATOR'S GUIDE AND STEM RESOURCE CATALOG



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STEM & EDUCATION

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Dear Educators,

Carolinas Aviation Museum is proud to be partnering with Honeywell to deliver innovative, curriculum-based STEM programming for your class or group. Together, we've invested considerable time collaborating over the past several months, taking a comprehensive look at the programs we offer and tailoring them to an outreach model where we can "bring the museum to you" as we prepare to build a new, permanent home for the museum with plans to open in 2022.

Our partnership is a natural one as both of our organizations seek to affect positive change in our community. Working together, we know that we can act as an important bridge between the aviation industry and future career paths for students.

As you peruse this guide, you will note that CAM has updated our educational offerings to better serve students' needs. We are offering new programs that allow educators to choose more advanced STEM learning experiences that complement the work you are doing in the classroom. We're also taking our programs on the road with an array of outreach opportunities that let us come to YOU! Programs are meant to challenge students to become problem solvers and innovators.

We're very proud to collaborate on this project in an effort to complement your classroom learning as we seek to better prepare our students to face future challenges and succeed in the ever-changing landscape of technology and STEM careers. Our organizations share a passion for empowering students through inspiring educational opportunities and dynamic learning experiences. Our mission through this partnership is to invest in the next generation by providing accessible programs for the communities that we serve. For both CAM and Honeywell, it's not just about the planes. It's about the people!

We look forward to serving your students this year!



Honeywell



HOW THINGS FLY

GRADES 3RD-12TH

Thrust, lift, weight, and drag are used each time an aircraft takes to the air. Students will explore these principles through dynamic demonstrations, experiments, and flying model aircraft.

Audience: 25-100 students. Suitable for a large assembly space or a classroom environment.



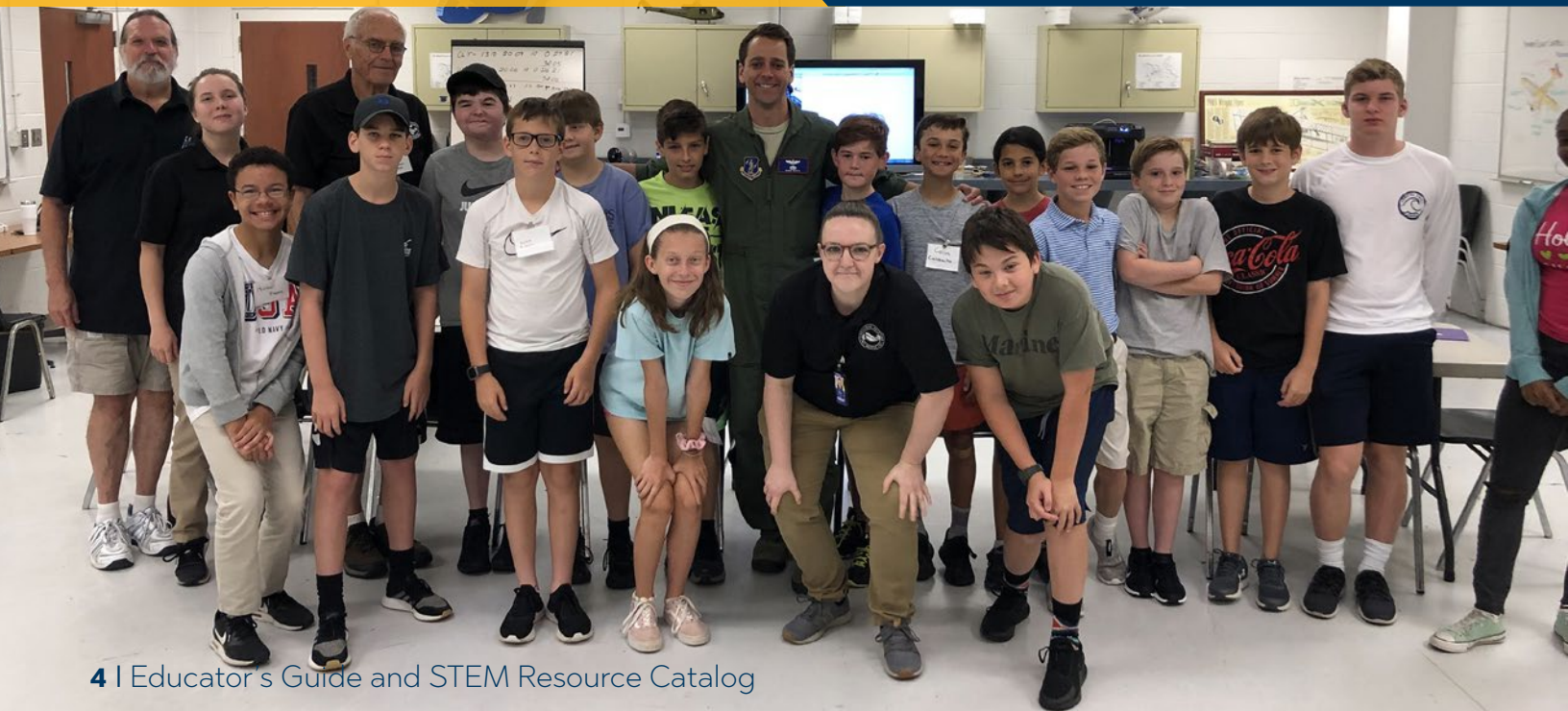
What makes airplanes fast? Students will invent shapes and forms that reduce drag and then test their designs with data recording devices and interactive models. Using graphs, charts, and data analysis tools, students will gain a solid understanding of data and interpret that data to improve their design.

Audience: maximum 25 students

Launching Spring 2020

ADVENTURES IN AERODYNAMICS

GRADES 6TH-12TH



SAFETY AND SURVIVAL

GRADES 3RD-12TH

Learn about aviation safety and careers through the “Miracle on the Hudson” story. Hands-on interaction and role play activities will demonstrate the design process behind aviation safety tools and introduce students to real people whose job it is to keep aviation the safest form of travel.

Audience: maximum 25 students



LITTLE AVIATORS

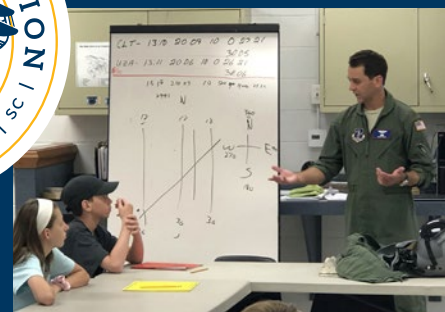
PRE-K

Students gain literacy skills through play and interaction with toys, role play, and crafts and experience an introduction to STEM principles through aviation activities.

Audience: maximum 15 students



Grade	Program Title	Group Size	Price	Highlights
Demo Stations (**\$9.50 per person, or add up to 2 additional demo stations for \$1 each per person)				
3rd-12th	How Things Fly	25-100 students	**see above	Thrust, lift, weight, and drag are used each time an aircraft takes to the air. Students will explore these principles through dynamic demonstrations, experiments, and flying model aircraft.
3rd-12th	Safety & Survival	25 students max	**see above	Learn about aviation safety and careers through the “Miracle on the Hudson” story. Hands-on interaction and role-play activities will demonstrate the design process behind aviation safety tools and introduce students to real people whose job it is to keep aviation safe.
6th-12th	<i>Adventures in Aerodynamics</i>	25 students max	\$9.50 per student, \$10.50 per adult	What makes airplanes fast? Students will invent shapes and forms that reduce drag and then test their designs with data recording devices and interactive models. Using graphs, charts, and data analysis tools, students will gain a solid understanding of data and interpret that data to improve their design.
PreK-K	Little Aviators	15 students max	One Session- \$10 per person; Two Sessions- \$12 per person.	Students gain literacy skills through play and interaction with toys, role-play, crafts, and are introduced to STEM principles through aviation activities.



CURRICULUM STANDARDS MATRIX

NC Curriculum Objectives:	SC Curriculum Objectives:
<p>3rd-5th: 3.P.1, 3.P.1.1, 3.P.1.2, 3.P.1.3, 3.P.2, 3.P.2.1, EX.4.P.1.1, EX.4.P.1.2, EX.4.P.1.3, 5.P.1, 5.P.1.1, 5.P.1.2, 5.P.1.3, 5.P.1.4</p> <p>6th-8th: 7.P.1.1, 7.E.1.3, Psc.1.2, PSc.1.2.1, PSc.1.2.2, PSc.1.2.3, Phy.1.2.3, Phy.1.2.4</p> <p>9th-12th: Phy.1.1, Phy.1.2, PSc.1.1, PSc.1.2</p>	<p>K-2nd: K.S.1A.4, K.S.1B.1, K.E.3A.3, K.E.3A.4, K.P.4A.1, K.ATO.2, 1.S.1A.3, 1.ATO.1, 1.ATO.1, 1.ATO.2, 2.S.1A.3, 2.E.2A.3, 2.E.2A.4, 2.P.4, 2.ATO.1</p> <p>3rd-5th: 3.S.1A.1, 3.S.1A.4, 3.S.1A.4, 3.L.5B.1, 4.S.1A.1, 4.S.1A.2, 4.E.2B.3, 5.S.1A.1, 5.S.1A.2, 5.P.5A.1, 5.P.5A.3, 5.P.5A.4</p> <p>6th-8th: 6.S.1A.1, 6.S.1A.2, 6.E.2B.1, 7.S.1A.1, 7.S.1A.7, 8.S.1A.1, 8.S.1A.2, 8.S.1A.7, 8.P.2A.2, 8.P.2A.5, 8.P.3A.6</p> <p>9th-12th: H.P.1, H.P.1B, H.P.2A, H.P.2B, H.P.2C</p>
<p>3rd-5th: NC: 3.H.1.1, 3.H.2.1, 3.H.2.2, 4.E.1.3, 5.G.1.3, 3.PCH.3.2</p> <p>6th-8th: NC: 6.H.2.2, 6.H.1.3, 7.H.1.2, 7.H.1.3, 8.H.1.2, 8.H.1.3</p> <p>9th-12th: HS.SI.1.2, PSC.1.2.1, PSC.1.2.2, PSC.3.1.1, PSC.3.1.2, PHY.1.1.2, PHY.1.1.3, PHY.1.2.4, PHY.1.3.2, AH2.H.1.1</p>	<p>3rd-5th: 3.S.1, 3.S.1A, 3.S.1A.1, 3.S.1A.6, 3.S.1A.7, 3.S.1B, 4.S.1A.1, 4.S.1A.4, 4.S.1A.6, 4.S.1A.7, 5.S.1, 5.S.1A, 5.S.1A.1, 5.S.1A.6, 5.S.1A.7, 5.S.1A.8</p> <p>6th-8th: 6.S.1, 6.S.1A, 6.S.1A.1, 6.S.1A.4, 6.S.1A.7, 7.S.1A.1, 7.S.1A.4, 8.S.1A.1, 8.S.1A.4</p> <p>9-12th: H.B.1A.1, H.B.4B.2</p>
<p>6th-8th: 6.RP.1, 6.RP.3, 6.RP.4, 6.NS.6, 6.SP.4, 6.SP.5, 7.P.1.1, 7.P.1.3, 7.P.1.4</p> <p>9th-12th: Phy.1.1, Phy.1.1.1, Phy.1.1.2, Phy.1.1.3, Phy.1.2.1, Phy.1.2.2, Phy.1.2.3, Phy.1.2.4, Phy.1.2.5, Phy.1.3, Phy.1.3.1, Phy.1.3.2, Phy.2.1, Phy.2.1.1, Phy.2.1.2, Phy.2.1.3</p>	<p>6th-8th: 8.S.1B.1, 8.P.2A.1, 8.P.2A.3, 8.P.2A.4, 8.P.2A.5, 8.P.2A.6, 8.P.2A.7</p> <p>9th-12th: H.P.1A.1, H.P.1A.2, H.P.1A.3, H.P.1A.4, H.P.1A.5, H.P.1A.6, H.P.1A.7, H.P.2, H.P.2A.1, H.P.2A.2, H.P.2A.3, H.P.2A.4, H.P.2A.5, H.P.2A.6, H.P.2B.1, H.P.2B.3, H.P.2B.4, H.P.2B.5, H.P.2B.6, H.P.2B.7, H.P.2B.8, H.P.2B.9, H.P.2B.10, H.P.2C</p>
<p>PreK: Goal APL-7, Goal APL-8, Goal ESD-4, Goal ESD-5, Goal LDC-3, Goal LDC-5, Goal LDC-7, Goal LDC-8, Goal LDC-11, Goal LDC 12, Goal CD-1, Goal CD-2, Goal CD-3</p>	<p>PreK: Goal LDC-3, Goal LDC-1, Goal LDC-9, Goal CD-1, Goal APL-1, Goal APL-2, Goal APL-3, Goal HPD-8</p>



Carolinas Aviation Museum



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