



NEW YORK WING, CIVIL AIR PATROL



AEROSPACE EDUCATION NEWSLETTER ONLINE

September - October 2020



SINCE OUR LAST EDITION - CONGRATULATIONS TO:



Newly assigned AEOs: 12	(total active in the Wing: 96)
New Technician Ratings: 2	(total active in the Wing: 50)
New Senior Ratings: 2	(total active in the Wing: 26)
New Master Ratings: 1	(total active in the Wing: 20)

And 5 new Yeager Awards earned!



REMINDER – IT IS REPORTING TIME!

Annual AE Activity Report

AEOs and Commanders are reminded that the **Annual AE Activity Report** is **due by 30 October** (for squadrons) and must be completed in eServices. The AEO submits the information, the Commander must approve by the due date/deadline at each level/echelon. **Don't wait until the last minute, plan ahead to meet deadlines well in advance!**

CAPP 50-1: REPORTING & DUE DATES – DEADLINES!

	2019-2020 AE Activity Report - FY 2020 ends 30 Sept (What you did - <i>history</i>)	2020-2021 AE Plan of Action - FY 2021 starts 01 Oct (What you plan to do – <i>future</i>)
Squadron to Group	30 October	30 November
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AE Educator 101

By Lt Col Anita Martin, Director Aerospace Education

Background: When the CAP School Program began, it typically was not staffed with experienced CAP officers but with school educators who operated on a yearly curriculum. To assist the teachers, a school training plan was given to them when the school squadron was chartered. Today, that training plan is available to all units and is located on the CAP national website, in the Cadet Library, at the bottom right side of the screen and is called the “Squadron Training Plan:”

www.qocivilairpatrol.com/programs/cadets/library

This is a full 24-month plan to get through the first two leadership books (along with applicable leadership activities), all six AE Modules (also with applicable activities), model rocketry and AEX! We want to give you ways to extend your AE training to receive more credits for less work!

→→→ This is *September/October* edition of *Wing Tips* and when you look at National’s *Squadron Training Plan* for the 10th month, the lesson suggested is Aerospace Dimensions 5.3 Our Solar System. You will see that the suggested Aerospace Dimensions activity # 12 “Lost on the Moon - Survival” *is also* AEX II Vol 1 Activity 10, “Lost on the Moon.” That’s ONE CREDIT FOR DOING AEROSPACE DIMENSIONS *and* ONE AEX CREDIT! That’s 2 Bangs for your Buck!! →→→

Stay tuned for the *Nov/Dec* Edition of *Wing Tips* for more exciting AE Educator 101 tips to get more “Bang for your buck”!

Logic and Puzzle Section

From CAP Aerospace Mini – Book of Logic and Puzzles

By Lt Col Anita Martin, DAE

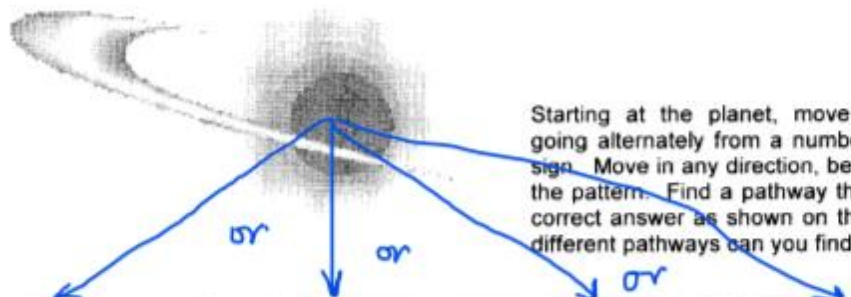
In each *Wing Tips* issue, we are providing you with a Critical Thinking Puzzle from *the Civil Air Patrol Aerospace Mini-book of Logic and Puzzles*. The Civil Air Patrol believes that “Critical Thinking” is a valuable skillset for leaders and it devotes a whole chapter to it in the LEARN TO LEAD: VOLUME TWO: TEAM LEADERSHIP

“Critical thinking is the habit of being guided by universal values of logic and a deep respect for the truth. As with other aspects of leadership, becoming a critical thinker is more a journey than a destination. Everyone is subject to lazy thinking or irrational thought from time to time. Therefore, developing the ability to think critically is a lifelong endeavor, a never-ending process.”

“Critical thinking is a desire to seek, patience to doubt, fondness to meditate, slowness to assert, readiness to consider, carefulness to dispose and set in order; and hatred of every kind of imposture.” SIR FRANCIS BACON One of the first thinkers to use the scientific method.”


This issue's Critical Thinking puzzle is Stella Calculations. Have Fun!

STELLER CALCULATIONS



Starting at the planet, move through the grid, going alternately from a number to an operations sign. Move in any direction, being certain to follow the pattern. Find a pathway that will give you the correct answer as shown on the star. How many different pathways can you find?

7	+	2	+	8	X	1	÷
X	4	÷	0	÷	1	+	6
4	X	2	+	3	-	4	-
-	1	X	5	÷	2	+	8
6	-	8	+	4	X	1	+
+	5	-	1	-	3	÷	2
2	+	4	X	7	-	1	X
X	7	÷	5	+	0	-	4



Problem Solving

14

(Hint: We will give solution at the end of the issue. Don't look 'till you've tried!!)
 The book is out of print, but you can download from **AE Downloads and Resources** in eServices.

Capt Burt Dicht Joins the NY Wing AE Staff



Last month I was honored to be asked to join the NY Wing Staff as the External Aerospace Education Officer. I have been a contributor to *Wing Tips* the last two issues and introduced myself to the Wing in the May issue. As a refresher, I am currently the AEO for both the NYC Group and the Phoenix Composite Squadron and I intend to leverage my experience to support the Wing and your activities as AEOs.

One of my first assignments is to support Lt Col Martin in developing the Wing's 2021 Plan of Action. COVID-19 has challenged all of our planning and it's still unclear when we'll be able to get back to normal. That makes it difficult to make plans and have any assurance we'll be able to carry them out. External AE is a particular challenge since many of the groups and schools we've reached out to in the past aren't meeting in person or allowing outside groups. That means we need to be creative and develop new approaches to conduct our AE activities.

That is an area I want to focus on. I know that AEOs across the country are looking at new ideas. I want to collect and share the best ideas with you. In the meantime, do you have a good idea? Please reach out to me and share your innovative ideas. Send your ideas or questions to capaerospace@gmail.com.

I'm looking forward to getting to know you and working with you in the coming year to enhance and promote our AE programs.

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List of Aerospace Museum Virtual Tours

Museum of Flight

<https://www.museumofflight.org/Explore-The-Museum/Virtual-Museum-Online>

National Air and Space Museum

<https://airandspace.si.edu/anywhere> Select – “Virtual Tour” on right side

National Naval Aviation Museum

<https://www.navalaviationmuseum.org/education/virtual-tour/>

Frontiers of Flight Museum

<https://www.flightmuseum.com/virtual-tour/>

National Museum of the US Air Force

<https://www.nationalmuseum.af.mil/Visit/Virtual-Tour/>

Hiller Aviation Museum

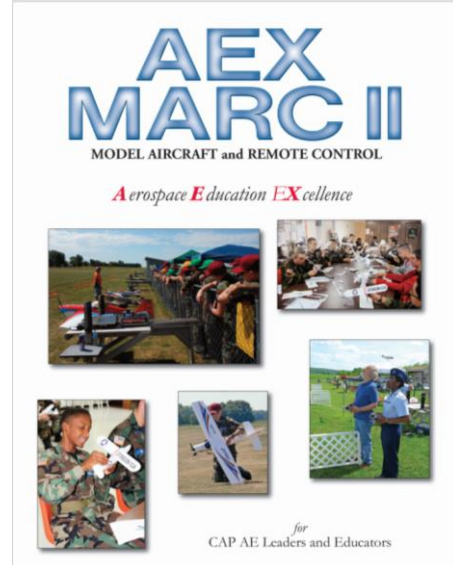
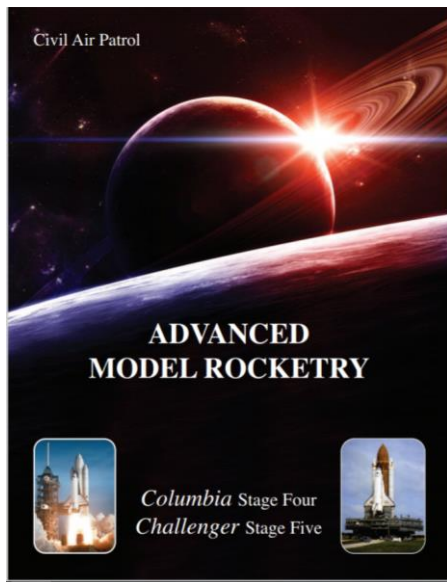
<https://www.hiller.org/museum/virtual-tour/>

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AE DOWNLOADS & RESOURCES

Is the USAF Space Force in your cadets' future? Looking for new projects for next AE year? Looking for something new to engage your members? How about these! Log into eServices, go to AE Downloads & Resources, review the shelves for these downloadable pdfs full of challenging activities that are AEX qualified! [Note: find 'extras' when you click on the booklet covers – you may find added volumes, or Spanish language volumes, plus completion certificates perhaps!]

This is located when you click on the Model Rocketry Program booklet cover revealing a short menu that includes the Columbia and Challenger stages of the [Advanced Model Rocketry Program](#). Also find the Spanish version of the basic Model Rocketry Program!



This is Vol II of the MARC program – don't miss this one containing a slew of easy and inexpensive projects, made with materials found around the household and/or bulk purchase kits – all of which qualify for the AEX annual program! Consider this for your next AE Plan of Action for 2020-2021!!

Note that the required mid-power rocket kit can range in price from \$70 to \$90 each depending on the vendor and the kit; example the 'Graduator' rocket can be used for *both* stages; the E, F, or G *plus* an H or I motor to complete both stages can add another \$70 each to the project – so finding a sponsor and/or fund raising is a 'must'!

Additional information on how to conduct a successful rocketry program is included in CAPP 50-1.

AE UPDATE from the INAUGURAL NATIONAL CONFERENCE!

➔ Volume 2 of Women in Aviation AEX booklet is nearly complete according to Dr Jeff Montgomery during the AE Update Session during the recent National Conference; expect it soon!

➔ Journey of Flight, 4th Edition, coming shortly, plus an audio version is being developed! Great news for cadets and senior members – the AEPSM / Yeager Award material is based on this volume (the Teacher's Guide is available too).

- AEX I & II are now combined.
- The Tuskegee Airmen booklet is scheduled for release at the end of this year.
- A new Engineering Module is planned for next year
- A module on Space Effects on the Human Body is also planned for next year.
- AEOs are encouraged to complete tasks BEFORE reporting your Annual AE Report – aim? *To earn the new AE Squadron Achievement Award for 2019-2020!*

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Recognize Your Colleagues and Organizations that Have Contributed to Aerospace Education!

Do you know an organization or a CAP member that made a significant contribution to aerospace education in the past year or over the course of their CAP career? Now is the time to consider nominating them for a CAP award. AE awards are a way to recognize the hard work and exceptional contributions of those that advance aerospace education. Any CAP member can nominate an organization or individual, but you must follow the prescribed process and forward it through the chain of command.

CAPP 50-1 describes the awards and the nomination process. Use **AE award forms** to complete your nomination packets and enter them into the electronic eServices under ‘Award Recommendations’; prepare your nomination package in advance and prior to attempting the electronic entry; gather qualitative information – facts that illustrate what was accomplished; refer to CAP Pamphlet 39-3 for style, helpful language and phrases to clearly describe why your candidate deserves recognition. **CAP Form 120** is used *only as the cover sheet* for each award nomination. ***Below is a list of awards and the applicable form:***

CAP Form **50-1** Brewer Nomination:

Category I, CAP Cadet

Category II, CAP Senior Member

Category III, Individual or Organization, non-member

Category IV, Lifetime Achievement, CAP Member

CAP Form **50-2** Holm Nomination: AEO of the Year

CAP Form **50-3** AE Teacher of the Year – an AEM or a CAP Member Certified Teacher

CAP Form **50-4** AFA AE Cadet of the Year

- **Frank G. Brewer CAP Memorial Aerospace Awards.**
The four award categories, nomination procedures, and the selection criteria for each are covered on the nomination form on CAP Form **50-1**.
- **Maj Gen Jeanne M. Holm CAP AEO of the Year Award.** More information about the qualifications and the nomination procedures can be found on CAP Form **50-2** or in CAPP 50-1.

- **CAP AE Teacher of the Year Award.** More information about the qualifications and the nomination procedures can be found on CAP Form **50-3** or in CAPP 50-1.
- **Air Force Association's (AFA) AE Cadet of the Year Award.** More information about qualifications and nomination procedures can be found on CAP Form **50- 4** or in CAPP 50-1.

DEADLINES FOR AWARD NOMINATIONS

Squadron to Group	15 December 2020
Group to Wing	15 January 2021
Wing to Region	15 February 2021
Region to NHQ	15 March 2021

Editorial Staff: (from left to right)

**Lt Col Anita Martin, NYW DAE; Lt Col Marilyn Rey, NYW DAE Emeritus;
Lt Col George Geller, AEO (I); Capt Burt Dicht, NYW AEO (A), NYCG AEO**



For questions or comments about any of this issue's topics, please email:

amartin31392cap@juno.com

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NEW – LESSON AND ACTIVITY VIDEOS

Civil Air Patrol's Aerospace Education team wants to share video lessons on this page. The lessons will serve cadets and students at a range of ages and over a variety of aerospace/STEM subjects.

<https://www.gocivilairpatrol.com/programs/aerospace-education/curriculum/lessonandactivityvideos>

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AEROSPACE AND STEM RESOURCES FOR REMOTE EDUCATION:

It's AMAZING! You just *cannot* go wrong when searching for something new, *different* and engaging for your next AE workshop or activity by checking out the WEALTH of resources gathered for you on:

<https://www.gocivilairpatrol.com/programs/aerospace-education/for-educators/aehome>

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HELP WANTED!

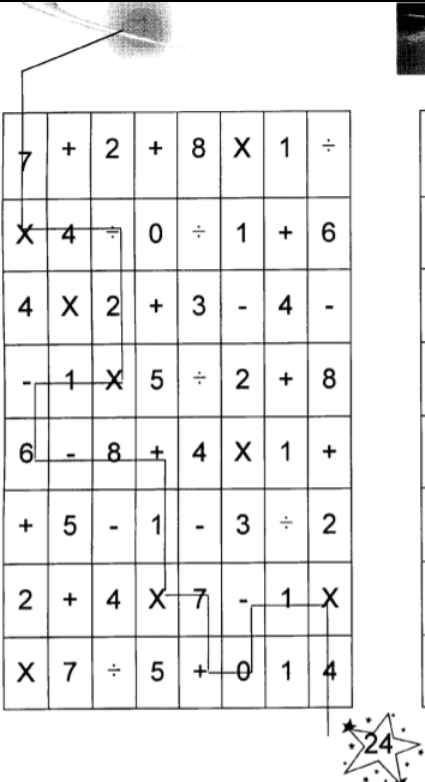
Newsletter Editor Wanted! Topics, How-To, Best Practices, Photos! Please send your contributions to Lt Col Anita Martin: amartin31392cap@juno.com

But wait! There's more

<https://www.gocivilairpatrol.com/programs/aerospace-education/announcements>

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Puzzle solution – there are many solutions, here's just one of them!

	<p><i>Don't' forget!</i></p> <p>REMINDER – IT IS REPORTING TIME! <i>Annual AE Activity Report</i></p> <p>AEOs and Commanders are reminded that the Annual AE Activity Report is due by 30 October (for squadrons) and must be completed in eServices. The AEO submits the information, the Commander must approve by the due date/deadline at each level/echelon. Don't wait until the last minute, plan ahead to meet deadlines well in advance!</p>
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This is SO important, we have printed another Reminder!

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