

These workshops will be presented on Zoom. Each participant will receive a link to join prior to each workshop.

### ONLINE WEBINARS

Wednesdays

November 3, 2021

December 8, 2021

March 9, 2022

May 11, 2022

4:00 PM to 5:30 PM

**Registration fee of \$10 per session can be paid by check or Venmo**

**Return if paying by check to Nassau TRACT Teacher Center**

**November 3, 2021** \_\_\_\_\_

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Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

School District/Building: \_\_\_\_\_

Register at  
[nassautract.org/conferences.htm](http://nassautract.org/conferences.htm)  
and follow the links to  
[mylearningplan.com](http://mylearningplan.com)

Send your \$10 Registration fee through Venmo to Nassau TRACT -- 516.701.9186 or make check payable and mail to:

Nassau TRACT Teacher Center  
3000 Hempstead Turnpike  
Suite 303  
Levittown, NY 11756

Email: [info@nassautract.org](mailto:info@nassautract.org)



Nassau TRACT Teacher Center  
Presents



## The Cradle Of Aviation Museum

Charles Lindbergh Blvd.  
Garden City, NY 11530

Workshops On Zoom

The Museum encourages learning for all ages! These sessions will demonstrate student engagement through project-based learning and seek to enhance your professional learning all while aligning with New York State and Next Generation Science Standards

**November 3 – 4:00 – 5:30PM**

**Making Connections: The Role of Engineers and Engineering Education**  
**Ask - Imagine - Plan - Create**

The engineering design has multiple stages. Educators will learn engaging hydraulic lessons and how to apply the engineering design to use in their classrooms. Educators will receive two hands-on lessons on hydraulic: they will create a hydraulic box and hydraulic lift. The hydraulic box will help demonstrate the basic principles of hydraulics. The hydraulic lift will focus on experimenting on the design of the lift's platform and the amount of payload it can hold. The lessons are for grades 4-8. In the hydraulic lift Lesson, we will include extensions for higher grades (7 and 8), where we apply real-life applications to include a budget to their design of the lift.

**December 8 – 4:00 – 5:30PM**

**Gateway to Mars**

Educators are invited to learn about the concepts of the Cradle of Aviation's New Competition: "Gateway to Mars". Working in groups, educators will design, build and present a Mars habitat using a guided education workbook and resources from NASA. Then, take what you've learned back to the classroom! Students will work to complete the Gateway project for a special showcase event at the Museum in the spring. Grades 9-12

**March 9 - 4:00 – 5:30PM**

**Adventures in Augmented Reality**

Adventures in AR- Who's ready for a mission?! Join us to learn more about the wonders of the planet; educators will get to explore the physical side of Mars through immersive experiences. Get hands-on with 3D Bear AR - an innovative learning application that allows users to build Augmented Reality scenes using virtual 3D models and their surroundings. Explore space agriculture to learn how hydroponic farming is useful to grow and yield plants for nutrition and sustainability. Grades 4-8.

**May 11, - 4:00 – 5:30PM**

**Colors of the Universe**

In this webinar, hands-on STEAM activities will help educators to understand more about how telescopes work, discover how to see the Universe in full color, and learn how astronomical data collection is done via telescopes. Can you incorporate information on the photo editing software they'll learn? How telescopes use filters to take images and how we can manipulate them for full color of celestial bodies. Grades 4-8.

Nassau TRACT Teacher Center  
Phone 516-605-1345, Fax 516-605-1343  
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