Join us for this 1-day introductory GeoGebra interactive workshop to experience how math learning can be relevant, engaging, fun, and offer differentiated learning experiences for all.

Using GeoGebra to Discover, Remediate, Differentiate, & Assess
We will have opportunities to interact with several powerful, ready-to-use GeoGebra resources and activities that powerfully illustrate how teachers can use GeoGebra as a platform for discovery learning, a resource for meaningful remediation, a tool to differentiate instruction, and a source of ongoing formative assessment. Each participant will create a GeoGebra account and will also have an opportunity to explore GeoGebra’s entire platform.

Exploring GeoGebra’s Suite of Apps
Participants will have opportunities to actively explore GeoGebra’s apps (Graphing Calculator, Geometry, CAS) on computers, tablets, and mobile phones. Participants will be actively with specific exploratory and higher-level activities with which they can engage students to discover within each app. We will also explore similarities and differences among these apps. We will also explore GeoGebra’s EXAM MODE feature that provides an environment for students to use GeoGebra safely on summative assessments (as it entirely eliminates opportunities for students to cheat).

Exploring GeoGebra 3D Calculator with Augmented Reality
We will explore GeoGebra 3D Calculator as we will create many 3D solids, explore their nets, and quickly create surfaces of revolution and explore cross sections in great detail. We will also plot ordered triples (x,y,z) in 3-space and use principles of coordinate and transformational geometry to build virtual models of prisms, pyramids, cones, and other composite solids. In doing so, we will discover ways to improve students’ spatial reasoning skills while simultaneously helping them become more critical thinkers within the 3D realm. We will also use augmented reality (now freely available on iPhones and Androids) to explore and test the accuracy of a real-life 3D model we will build as a group.

**DATE:** Monday, May 11, 2020  
**TIME:** 8:30 am – 2:30 pm  
**COST:** $199 for subscribers / $249 for non-subscribers  
**AUDIENCE:** Secondary Math Teachers, Math Chairs  
**LOCATION:** Instructional Support Center @ Sequoya, 750 Waverly Ave, Holtsville  
**REGISTER:** [http://webreg.esboces.org](http://webreg.esboces.org)

*Tim Brzezinski* is a former High School Mathematics Teacher (Berlin, CT) with 15 years’ experience. Tim continues to teach mathematics courses part-time at Central Connecticut State University. Tim Brzezinski regularly uses technology as a means of enhancing instruction within the secondary and post-secondary mathematics classroom. In the past, he has used a wide range of mathematics technology applications. Of all these great applications, Tim uses GeoGebra most extensively. GeoGebra has four amazing apps (Graphing Calculator, Geometry, 3D Graphing Calculator, and Classic) that can naturally foster active (and differentiated) discovery-based learning experiences for each student. Tim would look forward to the opportunity to show you and your colleagues how GeoGebra can amazingly empower teachers to create a learning environment that enhances student discovery, provides meaningful remediation, facilitates differentiation opportunities, and serves as a source of ongoing formative assessment.
**TO REGISTER FOR Eastern Suffolk BOCES WORKSHOPS, REGISTER THROUGH THE ACTIVITY CATALOG**

Check with your district to see if you are a member of Frontline/MyLearningPlan

For Frontline/MyLearningPlan Member Districts AND NON-Frontline/MyLearningPlan Member Districts:

To see available courses and to register:

- Go to the website: [http://webreg.esboces.org](http://webreg.esboces.org)
- Under ‘Search Options’ at the top center, select and check ‘Eastern Suffolk BOCES Professional Development Program’ from the drop down list and click search;
- Workshops are listed in chronological order
- Select the title of the course you would like to enroll in
- Click the **ENROLL** button at the bottom of the page
- Select the correct login method that applies to you (1) registered user; (2) new user; (3) MyLearningPlan.com user
- After you choose your login method then Enter User Name & Password – select Log in
- Enter and update (if needed) your personal account registration information
- Click **Update & Continue**
- Select payment method
- Click on the checkbox to agree to the Terms and Conditions regarding registration and/or cancellations – "REGISTRATION AND/OR CANCELLATIONS ARE DUE 10 SCHOOL DAYS PRIOR TO THE EVENT. THE DISTRICT WILL BE BILLED UNLESS CANCELLATION IS RECEIVED."
- Click **SUBMIT**
- Select ‘Request Approval’ on the following screen if you are a Frontline/MyLearningPlan district - If you are a Frontline/MyLearningPlan District, and depending on your district, you will need to fill out the next screen titled “Regional Provider Form” making sure to fill out all required information; **IF ALL NECESSARY INFORMATION IS NOT ENTERED, A FORM ERROR WILL BE OCCUR AND YOU WILL NOT BE FULLY ENROLLED**
- Click **SUBMIT** once ALL fields are filled out
- If you are **NOT** a Frontline/MyLearningPlan district, print out the **ENROLLMENT FORM** and **AFTER RECEIVING ADMINISTRATIVE SIGNATURE** on this form, fax back to **631-240-8955**
- You will receive an e-mail once you are fully registered
- Click **RETURN TO MAIN** and then **LOGOUT** to finish the process

**PLEASE NOTE THAT SUBMITTING ONLY AN INTERNAL CONFERENCE REQUEST FORM DOES NOT REGISTER YOU FOR OUR WORKSHOPS/CONFERENCES – IT MUST BE DONE THROUGH THE ESB REGIONAL CATALOG**

Eastern Suffolk BOCES does not discriminate against any employee, student, applicant for employment, or candidate for enrollment on the basis of sex, gender, race, color, religion or creed, age, weight, national origin, marital status, disability, sexual orientation, military or veteran status, domestic violence victim status, genetic predisposition or carrier status, or any other classification protected by Federal, State, or local law. ESBOCES also provides equal access to the Boy Scouts and other designated youth groups. Inquiries regarding the implementation of the above laws should be directed to either of the ESBOCES Civil Rights Compliance Officers at ComplianceOfficers@esboces.org; the Assistant Superintendent for Human Resources, 631-687-3029, or the Associate Superintendent for Educational Services, 631-687-3056, 201 Sunrise Highway, Patchogue, NY 11772. Inquiries may also be addressed to the Office for Civil Rights at the US Department of Education, 32 Old Slip, 26th Floor, New York, NY 10005, 646-428-3800, OCR.NewYork@ed.gov.