

Travel the World with Flags: Using Desmos to Explore Graphing Design with Equations & Inequalities

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Nigeria

- *Replicate the flag using linear equations /inequalities, & domain/range w/ www.Desmos.com
 - Reference:
 - Remijan, K. (2021). Flag Designs of African Countries: Enriching the Graphing of Linear Equations and Inequalities in Algebra. **The Lighthouse Almanac**. 12-19. http://bbamath.org/wp-content/uploads/2021/03/Lighthouse-Almanac_Vol4_Issue1.pdf
 - Video (8:42-10:45)
 - Remijan, K. (2020). Day 11 - Travel the World Through Flags: Desmos, Equations, and Inequalities. 19-19-19 COVIDEos 19 E-Learning Webinars. 11. Retrieved from https://digitalcommons.imsa.edu/covideos_19_webinars/11

Brazil/Honduras

- Teachers can insert flags into Desmos, share a link, put into student activity sheets, students can use to check...Example = <https://www.desmos.com/calculator/p9x6rewhni>
- Remijan, K. (To be Published 2023). Flags of Latin America: Culturally Relevant Learning Experiences with Technology to Enhance Geometry & Algebra Concepts.
 - *Brazil = Center symbol with the equation of a circle
 - *Honduras = Blue Stripes with linear inequalities

Trinidad & Tobago

- Trinidad & Tobago = Linear Equations & Inequalities
 - Reference:
 - Remijan, K.W. (Jan/Feb 2019). "STEAMing Up Linear Functions". Mathematics Teacher. 250-256. <https://pubs.nctm.org/view/journals/mt/112/4/article-p250.xml>
 - Video (11:28-12:52)
 - Remijan, K. (2020). Day 11 - Travel the World Through Flags: Desmos, Equations, and Inequalities (2020). 19-19-19 COVIDEos 19 E-Learning Webinars. 11. Retrieved from https://digitalcommons.imsa.edu/covideos_19_webinars/11

Bangladesh/ Israel/Palestine

- Remijan, K. (2020). Day 11 - Travel the World Through Flags: Desmos, Equations, and Inequalities (2020). 19-19-19 COVIDEos 19 E-Learning Webinars. 11. Retrieved from https://digitalcommons.imsa.edu/covideos_19_webinars/11
 - Bangladesh = Linear Equations & Equations/Inequalities of Circles (12:52-13:50)
 - Palestine = Absolute Value & Linear equations/inequalities (13:50-14:05)
 - Israel = Absolute Value & Linear equations/inequalities (14:05-16:44)

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Other Considerations:

- Start with having students only do the equations for a flag
 - Remijan, K. (2020). What Country is It in Africa? *Teacher Resources*. 3. https://digitalcommons.imsa.edu/pfs_tr/3
 - Republic of the Congo
 - Botswana
- Reimagine a flag (Note: Desmos has 6 colors)
 - Republic of the Congo (red, yellow, green) vs (red, black, green) = 2 types of Pan African Colors
 - Reference:
 - Remijan, K. (2021). Flag Designs of African Countries: Enriching the Graphing of Linear Equations and Inequalities in Algebra. **The Lighthouse Almanac**. 12-19. http://bbamath.org/wp-content/uploads/2021/03/Lighthouse-Almanac_Vol4_Issue1.pdf
- Use GeoGebra to replicate flags such as the Republic of the Congo or Colombia which have yellow
 - Remijan, K. (2020). Day 02 - Friday Night Fun with Flags: GeoGebra for Geometry and Graphing. 19-19-19 COVIDeos 19 E-Learning Webinars. 2. Retrieved from https://digitalcommons.imsa.edu/covideos_19_webinars/2
- Connect with culture
 - Remijan, K. (2021). Flags of Africa: Promoting Cultures and Connecting Math Concepts.
 - Video: <https://youtu.be/ykGzKcE-Jx4>
 - Resources: <https://tinyurl.com/4-Africa-Flags>
- Connect with current events
 - Flag of Ukraine & the Flag of Russia
- Use Desmos with images beyond flags
 - House Roof (Line)– <https://www.desmos.com/calculator/pt4im8eyrt>
 - Science Center (Hyberbola) - <https://www.desmos.com/calculator/rbu79kjpg0>
 - Toyota Symbol (Ellipse) – <https://www.desmos.com/calculator/e50qvrpe7a>

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Remijan, K.W. (2022). Travel the World with Flags: Using Desmos to Explore Design with Equations & Inequalities Publications & Research. 56. https://digitalcommons.imsa.edu/pfs_pr/56