

UP | Heritage Center for Learning
UNIVERSITY OF FLORIDA

1-888-608-MATH | help@AlgebraNation.com

STUDY
EDGE

Algebra Nation

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Algebra Nation University of Florida Johns Hopkins
University

Algebra Nation: A Short History

- ❑ Created during 2012-2013 school year by the University of Florida and Study Edge.
- ❑ Created through collaboration among teachers, administrators, parents and students.
- ❑ Created for teachers and students as a supplemental resource to help students achieve success in algebra.


Algebra Nation Components

- ❑ Instructional Videos
- ❑ Study Guides / Workbooks
- ❑ “Test Yourself!” Practice Tool
- ❑ Algebra Wall

Algebra Nation Features

- ❑ Integration with Districts
 - ❑ Students/teachers use existing credentials
 - ❑ Student rosters uploaded for teachers
- ❑ Easy-to-access Teacher Reports
- ❑ Universal access, intuitive interface
 - ❑ Web / Facebook / iPhone /Android /iPad
- ❑ Facilitates blended learning, flipped classrooms, differentiated learning

Algebra Nation Videos



Teacher Feedback

Alex is in my Algebra 1 class but has been absent several times this semester because he's on a travel Hockey team. I noticed that his grades began to slip so I suggested that he watch the videos on systems of equations. When he returned, he said that he had watched the videos and felt confident for the next test. He scored an 85%...and won his game! Thanks Algebra Nation!

It's a great way to stay on track with the curriculum, especially for students that have special circumstances. Although we don't have too many of these cases, we are pleased to be able to offer them a free online resource available anywhere, anytime.

Olga Ferber, Palm Beach County

Teacher Feedback

Spent the first day back to school introducing my students to use "outside the classroom" resources as they get ready for the End of Course Algebra Test. I realize more now how valuable this resource really is! As a side note, I am a teacher who has laryngitis, LOL, so you can bet I will be using those teaching videos tomorrow."

Diane King, Okeechobee County

Eleven Sections

- 1: Sets and Venn Diagrams
- 2: Relations and Functions
- 3: Solving for X
- 4: Solving Real World Equations
- 5: Lines (Part 1)
- 6: Lines (Part 2)
- 7: Systems of Equations
- 8: Monomials and Radicals
- 9: Polynomial Operations
- 10: Factoring
- 11: Solving for X with Exponents

Study Guides / Workbooks

2013-2014 WORKBOOK

ALGEBRA NATION

Let's start off with just identifying which method to use.

$y = -2x + 7$
 $11x + 9y = 2$

ELIMINATION
 SUBSTITUTION

Why?

$8x + 6y = 3$
 $11x + 6y = 2$

ELIMINATION
 SUBSTITUTION

Why?

UP Florida AlgebraNation.com

Teacher Feedback

I LOVE ALGEBRA NATION! I told my students to use it at home. I encouraged them and had 2 students that did the WHOLE WORKBOOK at home. In my block classes, I had time to do a few videos in class. I would use the Beat The Test problems on the Elmo for a quick review. I have taught 30 years and am very energetic about students being successful on the EOC. I teach below standard and standard students and had 78% of the first time test takers pass the EOC!!!!

Betty Westhelle, Seminole County

Teacher Feedback

I was a recipient of workbooks. Thanks! Introduced to the kids today and they LOVED it! They all left the lab making plans to get together and work on it.

Stephanie Finch, Brevard County

"Test Yourself!" Practice Tool

Question 2 of 10

Jenny had some postage to get rid of and a package to send stamps to get a total of \$5.76 on the package. She used twice 16 cent stamps. Which system of equations could she use to used?

A. $2x = y; 0.40x + 0.16y = 5.76$

B. $x = 2y; 0.40x + 0.16y = 5.76$

C. $2x = y; 0.40x - 0.16y = 5.76$

D. $x = 2y; 0.40x - 0.16y = 5.76$

Previous Next

Calculator interface showing buttons for +/-, sqrt, %, +/-, MRC, M-, M+, X, 7, 8, 9, -, 4, 5, 6, +, 1, 2, 3, =, ON/C, 0, .

"Test Yourself!" Practice Tool

Question 1 of 10

Julie tries to keep a very consistent sleep schedule. However, she has been losing her discipline. Usually she gets seven hours a day, but last week she was only able to get half of that on Monday, half of that on Wednesday and half again on Saturday. The other days, Julie followed her schedule. How many hours of sleep did Julie lose from her normal schedule?

Immediate Feedback

| Questions | Results | Which video was this in? | Watch the Answer Video |
|-----------|-------------|--------------------------|--|
| 1 | Question 1 | ✓ | Video 1 - Domain and Range Watch Video |
| 2 | Question 2 | ✓ | Video 1 - Domain and Range Watch Video |
| 3 | Question 3 | ✓ | Video 1 - Domain and Range Watch Video |
| 4 | Question 4 | ✗ | Video 1 - Domain and Range Watch Video |
| 5 | Question 5 | ✓ | Video 1 - Domain and Range Watch Video |
| 6 | Question 6 | ✓ | Video 3 - Solving Problems using Functions and Relations Watch Video |
| 7 | Question 7 | ✗ | Video 3 - Solving Problems using Functions and Relations Watch Video |
| 8 | Question 8 | ✗ | Video 3 - Solving Problems using Functions and Relations Watch Video |
| 9 | Question 9 | ✓ | Video 1 - Domain and Range Watch Video |
| 10 | Question 10 | ✓ | Video 1 - Domain and Range Watch Video |
| | | 7 out of 10 correct | |

Algebra Wall

Videos and More Algebra Wall Leaderboard

Write your comment or question here.

Brandon Love Miami, FL Karma Points: 600

On a voyage to Atlantis, Ariel from The Little Mermaid decided to pick up shells so that she could make necklaces for her mermaid friends. She picked up 30 green shells, 35 blue shells, and 30 yellow shells. 17 of the green shells had some blue in them. 15 of the shells had both yellow and blue in them, and 10 of the shells had both yellow and green in them. If just one shell had all three colors in it, how many total shells did Ariel pick up?
I have no idea how to solve this I am confused like crazy. This is in section 1 test yourself.

Like Comment April 8th at 6:10pm (Post #154306)

Anam Ahmed Boca Raton, Karma Points: 100

you would have to make a venn diagram shown in the section one videos

Like Comment April 8th at 6:11pm (Post #154307)

Brandon Love Miami, FL Karma Points: 600

I know i did but I'm not sure if I'm right.

Like Comment April 8th at 6:12pm (Post #154311)

Anam Ahmed Boca Raton, Karma Points: 100

it would be with three circles. start by placing the shells with two or more colors in the intersecting circles. then use those numbers by subtracting them from the total number of shells

Like Comment April 8th at 6:12pm (Post #154312)

Brandon Love Miami, FL Karma Points: 600

This is what I got as my answer.

Maria Jose Plazas Martinez St Petersburg, FL Karma Points: 5100

Brandon, they are asking for the total of shells she got, so add all of the numbers in the venn diagram

Like Comment April 8th at 6:18pm (Post #154330)

Kylee Samon Seminole, FL Karma Points: 100

good now just add all the numbers together

Like Comment April 8th at 6:18pm (Post #154331)

Audra Berns Lake Worth, FL Study Expert

Brandon - are you good now?

Like Comment April 8th at 6:34pm (Post #154388)

Brandon Love Miami, FL Karma Points: 600

Yes thanks

Like Comment April 8th at 6:34pm (Post #154392)

Teacher Feedback

I am checking the traffic nightly and I am overwhelmed with the quality of the posts and the cross-state interaction that our students are experiencing. You have provided our students with a resource in their native tongue...and they are loving it.

Diana Snider, Palm Beach County

Teacher Feedback

I have been on Algebra Nation at least an hour each evening this week. It is addictive! I love being able to help the kids in this way.

Bryan Cummings, Volusia County

I love ALG nation and how it's helping all of our students. The Algebra Wall makes me and the kids feel a part of a big team!

Mindy Melito, Citrus County

Student Feedback

algebra nation is the best and easiest way to learn and master algebra one ...

Frederick Gonsalves



Frederick Gonsalves Miami, FL Karma Points: 0

algebra nation is the best and easiest way to learn and master algebra one....

Like 1 Comment April 8th at 10:23am (Post #152914)



Shawn Wigg All Cities, FL

Awesome!!

Like Comment April 8th at 10:55am (Post #153048)

Study Expert

Just started today and im in love with everything this program has to offer. Its been helping me understand things in minutes when it took me months to learn. Thank you so much Algebra Nation!!!

Fanny Gonzalez



Fanny Gonzalez Port Saint Lucie, FL St. Lucie West Centennial High Karma Points: 0 +100 +200 +500

Just started today and im in love with everything this program has to offer. Its been helping me understand things in minutes when it took me months to learn. Thank you so much Algebra Nation!!!

Like 2 Comment April 3rd at 12:35am (Post #143349)



Ryan Kempsey Apopka, FL Karma Points: 200

Sorry this is not algebra related, but since the math has calmed down somewhat, I just wanted to express my feelings about Algebra Nation. This app is amazing! Until now, I hated doing math! But now, I love math so much more, just the feeling of leaning so much more makes me happy! I love math now, and like to help other students who are struggling! This is the best app for any algebra help, and I would recommend this to anyone! Just the greatest idea, Kudu's to all of you!! :)

Like 4 Comment March 5th at 6:56pm (Post #107329)



Maria Jose Plazas Martinez St Petersburg, FL Karma Points: 6300

Yeah. Algebra Nation is the bomb.com :)

Like Comment March 5th at 6:59pm (Post #107346)



Victoria Kwiat Volusia County Schools, Karma Points: 3900

Great! Algebra Nation is amazing!:)

Like Comment March 5th at 6:59pm (Post #107347)

Algebra Nation: Many Uses

Algebra Nation Videos

- Use to introduce a lesson
- Differentiate instruction by assigning students videos to view based on assessments
 - Shorter / Longer Versions ; Extra Practice Problems Videos
- Reinforce a lesson
- Make up work for student or teacher absence
- Flipped classroom
- Teacher professional development

Algebra Nation: Many Uses

Test Yourself! Practice Tool

- Assign for homework
- Use for data collection to document student progress
- Use to assess; assign videos based on results
- Problems for warm-up activity
- Error Analysis

Algebra Nation: Many Uses

Algebra Nation Wall

- Homework Assistance on the Go
- Extended Office Hours
- Peer Tutoring
 - Challenge high-performing students
 - Volunteers (Gainesville Math Team)
- Teacher Professional Development

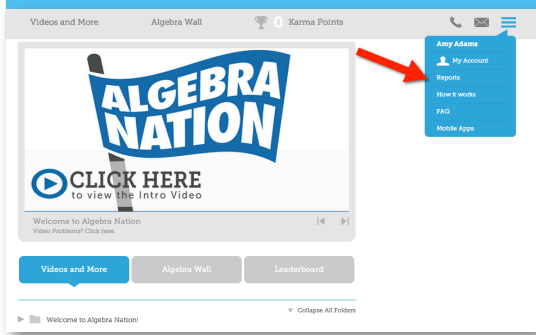
Algebra Nation – Mobile Apps



Search
“Algebra Nation”
in the App Store or
on Google Play.



Teacher Area: Teacher Reports



Teacher Area: Coming Soon

- Ways to use Algebra Nation
 - Video testimonials
 - Using AN for remediation, flipped classroom, etc.
- Teacher Tips
- Best Practices for teaching algebra
- Resources for teaching difficult topics

Teacher Area: Common Core Resources

The Bill and Melinda Gates Foundation awarded us grant to expand our teacher area to include Common Core resources:

- Curated resource library
- Videos highlighting CCSS Practice Standards in Action
- Teachers-only wall
- Community of Inquiry

Will be available for the 2014-2015 school year

How to get Started

- ❑ AlgebraNation.com
 - ❑ Enter Now → Log in with Facebook
 - ❑ Accessible online, on smartphones, on iPads
- ❑ Integration

Algebra Nation: Join Us

- ❑ Interested in becoming a pilot district?
- ❑ Integration
 - ❑ District tech administrator
 - ❑ Math Supervisor / Superintendent of Curriculum
- ❑ Email Melody@AlgebraNation.com

Questions?

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