Thanks for joining us! We will begin promptly at 2:00 p.m. ET.

- Use the "questions" area to submit questions as they arise.
- This webinar will be archived at NROCnetwork.org, and you will receive a follow-up email with a link to the recording and slides.
- Contribute to the Twitter conversation at #NROCpd.
- Do you need help with GoToWebinar? Email memberservices@NROC.org.
NROC partners with educators to create open and low-cost courses and tools that are designed to recognize every student’s unique learning needs and preferences. These resources can be adapted and scaled to meet programmatic goals in a variety of instructional settings.
<table>
<thead>
<tr>
<th>NROC COURSES</th>
<th>NROC MATH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Algebra 1</td>
</tr>
<tr>
<td></td>
<td>Developmental Math</td>
</tr>
</tbody>
</table>

| NROC ENGLISH | Developmental English |

<table>
<thead>
<tr>
<th>WEB-BASED TOOLS</th>
<th>EdReady</th>
<th>Hippo Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a readiness system (to personalize a learner’s study path)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a curated repository of learning objects</td>
<td></td>
</tr>
</tbody>
</table>

NROC courses can be installed in a Learning Management System (LMS) or can be accessed through our web-based tools.
WHAT IS NROC MATH?
WHAT IS NROC MATH?

NROC MATH

DEVELOPMENTAL MATH

ALGEBRA 1
<table>
<thead>
<tr>
<th>19 UNITS</th>
<th>Developmental Math</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: Whole Numbers</td>
<td>2: Fractions and Mixed Numbers</td>
</tr>
<tr>
<td>2: Fractions and Mixed Numbers</td>
<td>3: Decimals</td>
</tr>
<tr>
<td>3: Decimals</td>
<td>4: Ratios, Rates, and Proportions</td>
</tr>
<tr>
<td>4: Ratios, Rates, and Proportions</td>
<td>5: Percents</td>
</tr>
<tr>
<td>5: Percents</td>
<td>6: Measurement</td>
</tr>
<tr>
<td>6: Measurement</td>
<td>9: Real Numbers</td>
</tr>
<tr>
<td>7: Real Numbers</td>
<td>10: Solving Equations &amp; Inequalities</td>
</tr>
<tr>
<td>10: Solving Equations &amp; Inequalities</td>
<td>11: Exponents and Polynomials</td>
</tr>
<tr>
<td>11: Exponents and Polynomials</td>
<td>12: Factoring</td>
</tr>
<tr>
<td>12: Factoring</td>
<td>13: Graphing</td>
</tr>
<tr>
<td>13: Graphing</td>
<td>14: Systems of Equations &amp; Inequalities</td>
</tr>
<tr>
<td>14: Systems of Equations &amp; Inequalities</td>
<td>15: Rational Expressions</td>
</tr>
<tr>
<td>15: Rational Expressions</td>
<td>16: Radical Expressions and Quadratic Equations</td>
</tr>
<tr>
<td>16: Radical Expressions and Quadratic Equations</td>
<td>17: Functions</td>
</tr>
<tr>
<td>17: Functions</td>
<td>18: Exponential &amp; Logarithmic Functions</td>
</tr>
<tr>
<td>18: Exponential &amp; Logarithmic Functions</td>
<td>7: Geometry</td>
</tr>
<tr>
<td>7: Geometry</td>
<td>8: Concepts in Statistics</td>
</tr>
<tr>
<td>8: Concepts in Statistics</td>
<td>19: Trigonometry</td>
</tr>
<tr>
<td>UNIT</td>
<td>COURSE</td>
</tr>
<tr>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td>1</td>
<td>Algebra: A New Angle</td>
</tr>
<tr>
<td>2</td>
<td>Solve Linear Equations</td>
</tr>
<tr>
<td>3</td>
<td>Functions and Patterns</td>
</tr>
<tr>
<td>4</td>
<td>Analyze and Graph Linear Equations, Functions, and Relations</td>
</tr>
<tr>
<td>5</td>
<td>Analyze, Solve, and Graph Linear Inequalities</td>
</tr>
<tr>
<td>6</td>
<td>Systems of Linear Equations and Inequalities</td>
</tr>
<tr>
<td>7</td>
<td>Radical Expressions</td>
</tr>
<tr>
<td>8</td>
<td>Polynomials</td>
</tr>
<tr>
<td>9</td>
<td>Factoring</td>
</tr>
<tr>
<td>10</td>
<td>Quadratic Functions</td>
</tr>
<tr>
<td>11</td>
<td>Rational Expressions and Equations</td>
</tr>
<tr>
<td>12</td>
<td>Extensions and Applications</td>
</tr>
</tbody>
</table>
WHAT IS NROC MATH?

PRESENTATIONS

MULTIPLYING WHOLE NUMBERS AND APPLICATIONS

Multiplication

21 x 15 = 315
21 • 15 = 315
21(15) = 315

WORKED EXAMPLES

GRAPHING TYPES OF FUNCTIONS

PRACTICE/REVIEW PROBLEMS

GRAPHING SYSTEMS OF INEQUALITIES

The following graph shows the solution to which system of inequalities?

2 of 6

The volume of a cylinder is the area of its base, πr², times its height, h.

Compare the formula for the volume of a cone \( V = \frac{\pi \cdot r^2 \cdot h}{3} \) with the formula for the volume of a pyramid \( V = \frac{\text{base} \cdot \text{height}}{3} \). The numerator of the cone formula is the volume formula for a cylinder, and the numerator of the pyramid formula is the volume formula for a rectangular prism. Then divide each by 3 to find the volume of the cone and the pyramid. Looking for patterns and similarities in the formulas can help you remember.
METHODS OF DELIVERING NROC MATH CONTENT TO STUDENTS:

1. Install in a local Learning Management System (LMS)
2. EdReady
3. Pull discrete learning objects from HippoCampus (to use anywhere)
Developmental Math: Pre-Assessment Version

Students engage in quick diagnostic at the start of each UNIT to receive a custom study path.
## Developmental Math: Pre-Assessment Version

### Whole Numbers

<table>
<thead>
<tr>
<th>Topic</th>
<th>Correct</th>
<th>Incorrect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dividing Whole Numbers and Applications</td>
<td>25%</td>
<td>75%</td>
</tr>
<tr>
<td>Properties and Laws of Whole Numbers</td>
<td>100%</td>
<td>0%</td>
</tr>
<tr>
<td>The Distributive Property</td>
<td>0%</td>
<td>100%</td>
</tr>
<tr>
<td>Understanding Exponents and Square Roots</td>
<td>50%</td>
<td></td>
</tr>
</tbody>
</table>

### My Learning Path

- **Multiplying and Dividing Whole Numbers**
  - 1. Multiplying Whole Numbers and Applications
  - 2. Dividing Whole Numbers and Applications
- **Properties of Whole Numbers**
  - 2. The Distributive Property
- **Exponents, Square Roots, and the Order of Operations**
  - 1. Understanding Exponents and Square Roots
  - 2. Order of Operations

[Retake] [Continue]
PRESENTATIONS

WORKED EXAMPLES

VIRTUAL TUTOR SIMULATIONS

TEXT-BASED LESSONS

INSTALL IN A LOCAL LEARNING MANAGEMENT SYSTEM (LMS)

PRACTICE/REVIEW PROBLEMS

PBL ACTIVITIES
Unique Features and Benefits

• Greater instructor control over course sequence and pacing
• Ability to hide/show topics when desired
• Instructors can inject external content
• Instructors can remove existing content at the unit or topic level
INSTALL IN A LOCAL LEARNING MANAGEMENT SYSTEM (LMS)

Unique Features and Benefits

Edit unit-level quizzes
INSTALL IN A LOCAL LEARNING MANAGEMENT SYSTEM (LMS)

Unique Features and Benefits

Edit unit-level quizzes
Student Progress and Tracking

Developmental Math Standard Version and Algebra 1:
Student progress and tracking using standard LMS tools

Developmental Math w/ Pre-Assessment:
Student progress and tracking using standard LMS tools and NROC Course Manager
Student Progress and Tracking

Both student and class level reporting via NROC’s Course Manager.
NROC Course Manager

• Add instructors
• Set mastery score
• Manage course settings
• Select course content

INSTALL IN A LOCAL LEARNING MANAGEMENT SYSTEM (LMS)
INSTALL IN A LOCAL LEARNING MANAGEMENT SYSTEM (LMS)

NROC Course Manager

- Add instructors
- Set mastery score
- Manage course settings
- Select course content
QUESTIONS?
METHODS OF DELIVERING NROC MATH CONTENT TO STUDENTS:

1. Install in a local Learning Management System (LMS)

2. EdReady

3. Pull discrete learning objects from HippoCampus (to use anywhere)
EDREADY

- Web-based, hosted on NROC servers
- No LMS required
- Single-Sign-On integration available
EdReady Student Experience

Get ready for college and career!

EdReady™ lets you assess your readiness for college math and English, see target options, and get a personalized study path to fill in knowledge gaps.

Get Started

EDUCATION LEADERS: Learn about EdReady™ for institutions
WEB-BASED TOOLS

Open and Designed for Institutional Customization

Goals

What do you want your students to be ready for?

Knowledge Inventories

Resources

Data Access

Readiness

What do you want your students to be ready for?

CAREER

COLLEGE

EdReady
Powered by NROC
• Detailed breakdown of strengths and weaknesses
• Customized learning plan
Developmental Math

Unit 1: Whole Numbers
Unit 2: Fractions and Mixed Numbers
Unit 3: Decimals
Unit 4: Ratios, Rates, and Proportions
Unit 5: Percents
Unit 6: Measurement
Unit 7: Geometry
Unit 8: Concepts in Statistics
Unit 9: Real Numbers
Unit 10: Solving Equations and Inequalities
Unit 11: Exponents and Polynomials
Unit 12: Factoring
Unit 13: Graphing
Unit 14: Systems of Equations and Inequalities
Unit 15: Rational Expressions
Unit 16: Radical Expressions and Quadratic Equations
Unit 17: Real Numbers
Unit 18: Exponential and Logarithmic Functions
Unit 19: Trigonometry

Algebra 1

Unit 1: The Language of Algebra
Unit 2: Solve Linear Equations
Unit 3: Functions and Patterns
Unit 4: Analyze and Graph Linear Equations, Functions and Relations
Unit 5: Analyze, Solve, and Graph Linear Inequalities
Unit 6: Systems of Linear Equations and Inequalities
Unit 7: Radical Expressions
Unit 8: Polynomials
Unit 9: Factoring
Unit 10: Quadratic Equations
Unit 11: Rational Expressions and Equations
Unit 12: Extensions and Applications
PRESENTATIONS

WORKED EXAMPLES

TEXT-BASED LESSONS

PRACTICE/REVIEW PROBLEMS

EDREADY

No Virtual Tutor Simulations or Project-Based Learning Activities in EdReady
Customize the scope of learning objectives.
EdReady Math Pathways Alignments

- Agriculture
- Business
- Communication Technologies
- Computer and Information Science
- Construction Trades
- Culinary Services
- Early Childhood Education and Teaching
- Engineering Technologies
- Health Professions
- Law Enforcement, Firefighting, and Protective Services
- Legal Professions
- Mechanic and Repair Technologies
- Natural Resources and Conservation
- Precision Production
- Transportation and Logistics
EdReady Math Pathways Alignments

- Agriculture
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- Legal Professions
- Mechanic and Repair Technologies
- Natural Resources and Conservation
- Precision Production
- Transportation and Logistics

Instructors do not add their own content to EdReady
Ten children in a kindergarten class own a dog. Fourteen children in the class do not own a dog. Find the ratio of the number of children who own a dog to the number of children in the class. Express the ratio as a simplified fraction.

- \( \frac{10}{14} \)
- \( \frac{5}{12} \)
- \( \frac{5}{7} \)
- \( \frac{12}{5} \)
Unique Features and Benefits

• Great for large enrollments
• Flexible student access
• Flexible administrative rights
• Year-to-year roll up reporting
• Historical testing data
QUESTIONS?
METHODS OF DELIVERING NROC MATH CONTENT TO STUDENTS:

1. Install in a local Learning Management System (LMS)

2. EdReady

3. Pull discrete learning objects from HippoCampus (to use anywhere)
HIPPOCAMPUS

Link to an individual video, simulation, worked example, or other media with a unique URL for that object.
Create playlists of multiple resources, from any collection, and share with ONE URL
HIPPOCAMPUS

Unique Features and Benefits

• Quick access to individual learning objects
• No logins; easy to share/embed
• No student tracking or reporting available
QUESTIONS?
Robust implementation and technical support

Dedicated implementation specialist
Daily Office Hours
Regular Info Sessions
Comprehensive Help Center and technical ticket support
BACK-TO-SCHOOL Info Session Series

3 Ways to Deliver NROC English  Wednesday, August 7
EdReady 101  Thursday, August 8

Of special interest to NROC members:
Optimize EdReady for a New Semester  Monday, August 12
EdReady Implementation Best Practices  Tuesday, August 13
Advice From the Front Lines: NROC Member Success Tips  Wednesday, August 14
Advanced EdReady Topics: Customization and New Feature Overview  Thursday, August 15

All sessions held at 2:00 PM ET | Register at NROCnetwork.org
THANK YOU FOR ATTENDING!

Dani Pedrotti
dpedrotti@nroc.org

Continue the conversation on social media using #NROCpd

Access the archived webinar at NROCnetwork.org