Bridging the Algebra Gap

How NROC & EdReady Montana Are Powering High School Math Success

The NROC Project and Montana Digital Academy



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HOUSEKEEPING

- Use the Q&A area to submit questions as they arise, and our team members will be actively managing questions in the Q&A and Chat boxes.
- This webinar will be archived at NROC.org, and you'll receive a follow-up email with a link to the recording and slides.
- Do you need help with Zoom? Email community@NROC.org.



WELCOME POLL

 We'd like to know who's joining us today! Please put your name, title and current role in the chat.













2003



Algebra 1

AN OPEN COURSE



Developmental English
AN INTEGRATED PROGRAM

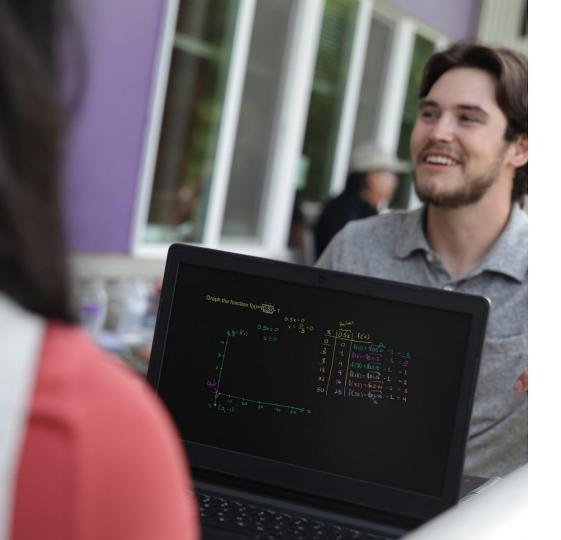
NROC founded

OER creation and distribution

Adaptive learning development

Diversification and refinement

Scaling for equity and impact

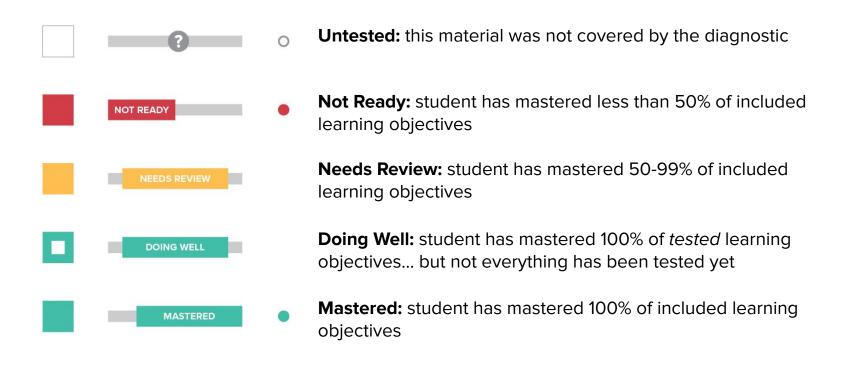


EdReady Supports:

- Just-in-time learning and accelerated learning
- → Grade-to-grade transitions
- Dual Enrollment / early college/ P-TECH programs
- High school completion
- → College and career readiness
- → Low-stakes, formative assessment for placement
- → Co-requisite education
- → HSE / GED, CASAS, ACT / SAT, TABE or NRS preparation
- → Teacher preparation
- → Corrections Education
- → Adult Education

THE STUDENT EXPERIENCE

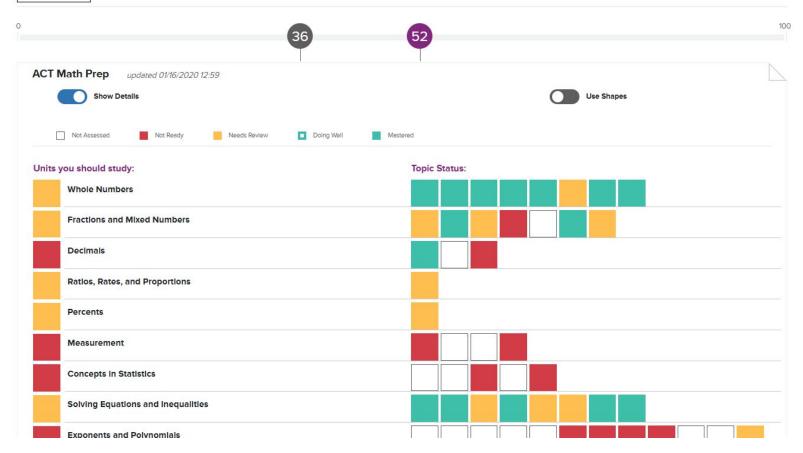
Mastery Status of Learning Objectives (Unit and Topic Level)





Prepare for the ACT or SAT

Choose the study path below that best meets your needs.





Core Program

High School Original Credit

FlexCAP

Middle School Courses

Individualized
Pathway Course (IPC)

EdReady*

Pathway to Algebra

Algebra Companion

English Support

ACT & MAST Prep

Pathway to College

*No Cost to MT Schools

Digital Learning Clearinghouse

Digital Content and Platforms

MTDA Learning Modules

Vendor Learning Modules

Frontier Learning Lab

AI Help Desk

AI and VR use in the classroom

Professional Learning Workshops

Pop-up Labs

Over 25,000

EdReady Enrollments Per Year

Over 6,600

K-12 Students used EdReady to Prep for Algebra 1 last year

4,000 - 6,000

Unique users a month



Over 22,000

EdReady Math Enrollments

Over 3,800

English Enrollments

179

Unique Schools

EdReady use in 2024/2025



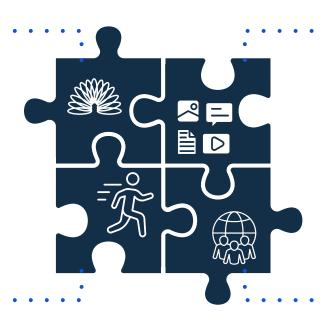
What is EdReady?

Proficiency-Based Education Platform

...providing a flexible toolset for mathematics and foundational writing

Supports Students During Transitions

...including maturation through levels of education when preparation matters



Assessment PLUS Content

...including a robust assessment engine PLUS award-winning content to help fill in gaps

Offered by the NROC Project

...a non-profit organization centered on delivering responsive learning curriculum and software How Does EdReady Work?





Our Team Supporting Your Team

From Planning to Successful Implementation



Initial Administrative Overview & Needs Assessment



Professional development services adapted to your implementation needs



Technical support services including account setup and enrollment support



Digital Resources including student use guides, teacher use cases, and high quality support materials



Offline support materials including printable reports, home use scenarios, and parent communications

Training | Hosted Service | Support



EdReady - Use CasesMath or English

Ways to implement:

(Usually 30 minutes of class time a week or less)

Teacher/Student/Parent Driven -

- Up Front Diagnostic Screening/Placement
- Skills Assessment Throughout Year
- Teacher led examples/group instruction
- Classroom As Filler/Out of Classroom Usage
- Classroom Setting On Multiple Occasions or Weekly/Set Days
- Test Prep setting/Classroom/Study Hall/Lunch, etc.

OR

Student/Parent Driven - Out of Classroom Usage



Essential questions...

What do students want to be ready for?

What can districts provide to support students to be better prepared for success?



EdReady Supports Transitions











HIGH SCHOOL

HIGH SCHOOL

COLLEGE







WORK FORCE









PRE-ALGEBRA ALGEBRA

"REGULAR" MATH

ADVANCED/HONORS MAT



SET GOAL

Conduct
needs
assessment
to help
schools pick
goals that
fit their
needs best

DIAGNOSTIC

PERSONALIZED LEARNING PATH

Students
take a
robust
assessment
to get a
"readiness"
score

Media-rich, award winning mathematics or reading, writing, grammar resources INCREMENTAL PROGRESS

Students take incremental assessments until the goal is reached

NEEDS ASSESSMEN T + SET GOALS

Intermediate, Middle School, & High School Goals

- · 5th Grade Readiness
- 6th Grade Readiness
- 7th Grade Readiness
- 8th Grade Readiness
- Pre-Algebra Readiness
- Algebra 1 Readiness

- Algebra 1 Supplement*
- Algebra 2 Readiness
- · Geometry Readiness
- · Pre-Calculus Readiness
- Calculus Readiness
- College Readiness

*Full year of Algebra 1 specific resources

Co-Curricular Goals

- Physics Readiness
- · Chemistry Readiness

Adult Education

- TABE E/M/D/A Readiness
- Pre-HiSET
- HiSET Prep 2020

Placement & Skills Inventory

- College Placement
- Middle to High School Placement
- Beginning/End of Year Assessment
- Identify Student Learning Gaps

EdReady English

- · College English
- ACT English Prep
- HiSET English
- TABE D-A English
- Writing Readiness
- Reading Readiness
- · Grammar Readiness

Test Prep Goals

- ACT
- SAT
- Accuplacer
- MPLEX
- Maplesoft
- GRE
- Praxis





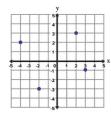
COMPASS Math Preparation

Whole Numbers

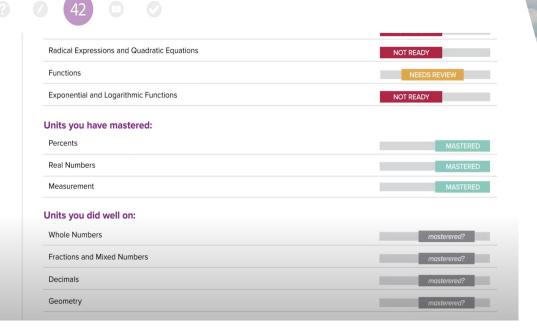
Progress:

The graph represents a function. Which ordered pair can be plotted together with these four points, so that the resulting graph still represesnts a function?

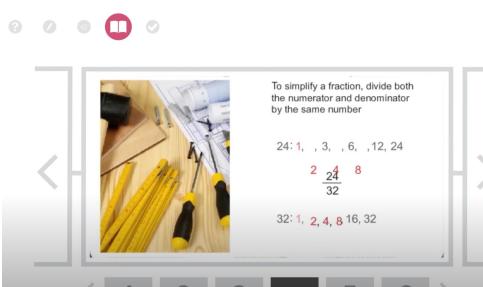
- (−5, 2)
- (−2, 5)
- \bigcirc (2, -1)
- \bigcirc (2, -5)



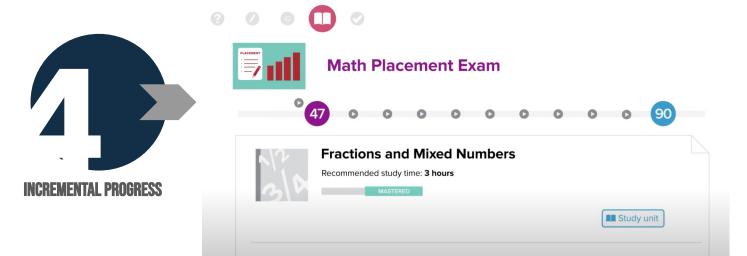






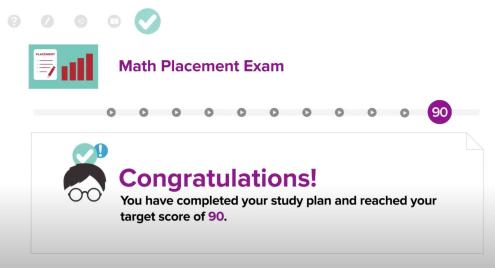














Pathway to Algebra

Initial EdReady Score Upon Completion of Diagnostic				
ER Initial Diagnostic Score	Grade Level			
<43	below 6th Grade			
43 - 51	6th Grade Ready			
52 - 64	7th Grade Ready			
65 - 72	8th Grade Ready			
73+	Algebra 1 Ready			

Progress Monitoring when you need it!



Pathway to Algebra

Inital Level to "Work to" Level	Current ER Score
below 6 to 6 grade ready	53
work up to 7 grade ready	67
work up to 8 grade ready	84
work up to Alg 1 ready	100

With EdReady, you get the technology

And the Team!

- 1. Needs assessment
- 2. Starting successfully
- 3. Usage support
- 4. Reports training
- 5. Beginning and end of the year support

ALL at no cost to schools!





EdReady Montana & EdReady Classroom Team



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Results Have Data:)



Pathway to Alg - Rural CO School 2024-2025

- 1. 8th Graders
- 2. Approximately 30 Minutes a week in ER
- 3. "You get out of it what you put into it"
- 4. Not Graded/principal delivered extra practice time
- 5. Next year will add extra credit for mastered topics and expand to more students



Pathway to Alg_ rural CO School 10 students 2024-2025 - NWEA MAP Scores

Student	Fall Score	Spring Score	Growth
student 1	251	271	20
student 2	240	254	14
student 3	261	277	16
student 4	242	267	25
student 5	231	252	21
student 6	242	262	20
student 7	247	263	16
student 8	244	259	15
student 9	241	248	7
student 10	250	267	17
	Average Increase		17.1



Pathway to Alg_ rural CO School 2024-2025 - NWEA MAP Scores

2 students chose not to use EdReady

Student	Fall Score	Spring Score	Growth
student 11	239	243	4
student 12	236	238	2
	Average Increase		3



Results Have Data:)



Pathway to Algebra - Mid Size School

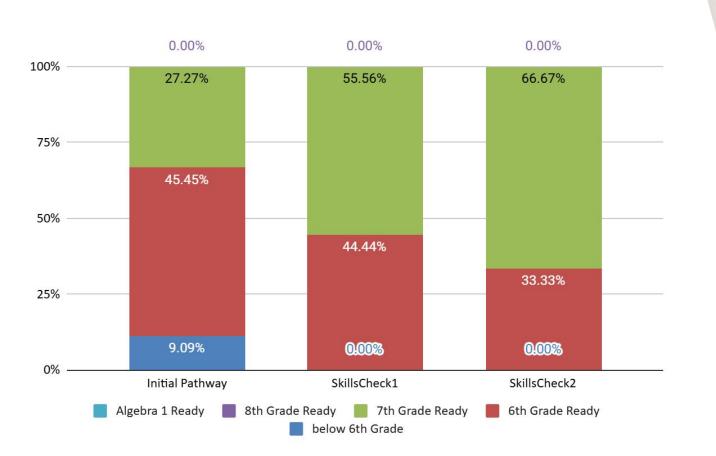
11 Math Foundations Students 2024-2025

Use case- Spring of 2025

- 1. Students who didn't pass 1st semester of pre-algebra were put into Math Foundations
- 2. Combination of direct instruction and EdReady
- 3. Students assessed 3 times using EdReady
- 4. Results led to 30% of the students to go directly into the Alg I class
- 5. Through proficiency based grading earned a full credit for the class they were failing



Pathway to Algebra - 11 Math Foundations Students 2024-2025



Results Have Data:)



8th Grade - 69 students (Pathway to Algebra)

Early Fall

10% Below 6th Grade51% 6th Grade Ready36% 7th Grade Ready

3% 8th Grade Ready

0% Algebra 1 Ready

Mid Year Check

3% Below 6th Grade12% 6th Grade Ready55% 7th Grade Ready31% 8th Grade Ready

0% Algebra 1 Ready

End of Year Check

1% Below 6th Grade
3% 6th Grade Ready
49% 7th Grade Ready
44% 8th Grade Ready
3% Algebra 1 Ready

8th Grade - 69 students

Study Time Increased Score

6:22:46

Overall Avg Study Time

6:17:44

Study Time Decreased Score

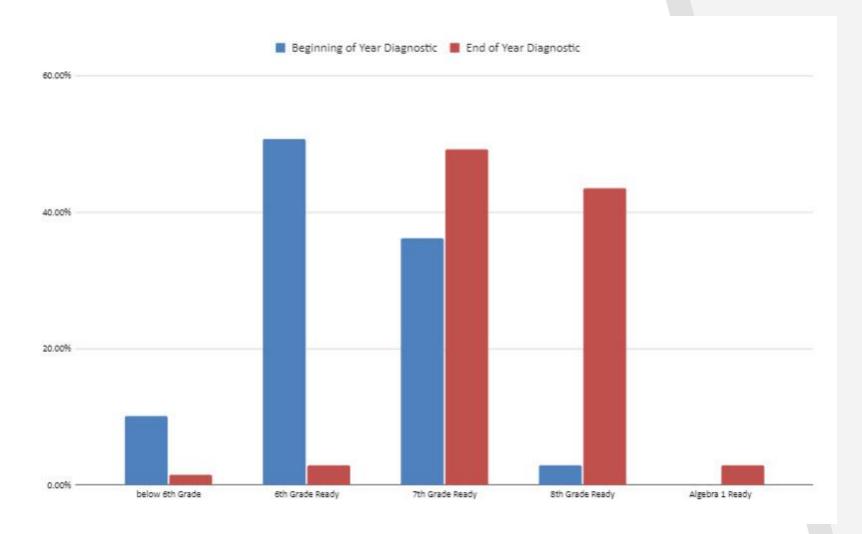
3:29:44

14% - Up 0 Levels - 10 Students 55% - Up 1 Level - 38 Students 26% - Up 2 Levels - 18 Students 1% - Up 3 Levels - 1 Student



8th Grade - 69 students

Mid Year Check		Mid Year Check	
90% 9%	Increased Score Decreased Score	67% 3%	Increased Level Decreased Level
End of Year Check		End of Year Check	
End	d of Year Check	End	of Year Check



Results Have Data:)



Pathway to College _ Rural MT School 2024-2025

Use Case 24/25 School Year:

- 1. Reports used to find gaps
- 2. Goal used weekly in class to improve skills
- 3. Emphasis on work shown more than score improvement
- 4. No out of class time
- 5. Over the shoulder help



Pathway to College _ Class B School 25 students 2024-2025

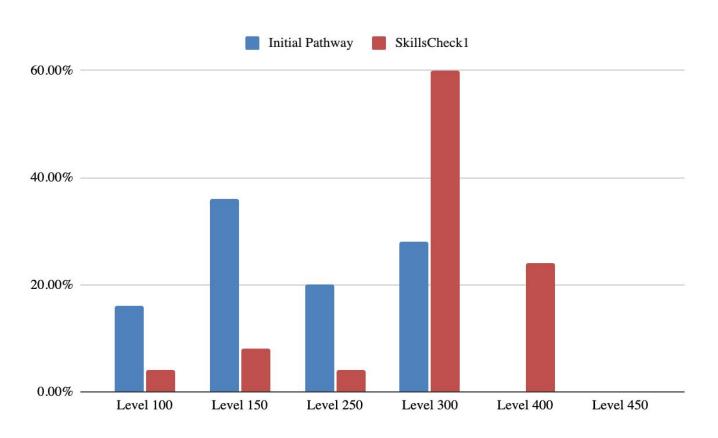
Early Fall

Spring Check

16%	Level 100	4%	Level 100
36%	Level 150	8%	Level 150
20%	Level 250	4%	Level 250
28%	Level 300	60%	Level 300
0%	Level 400	24%	Level 400

Pathway to College Score Interpretation Explanation

Pathway to College _ Class B School 25 students 2024-2025





Results Have Data:)

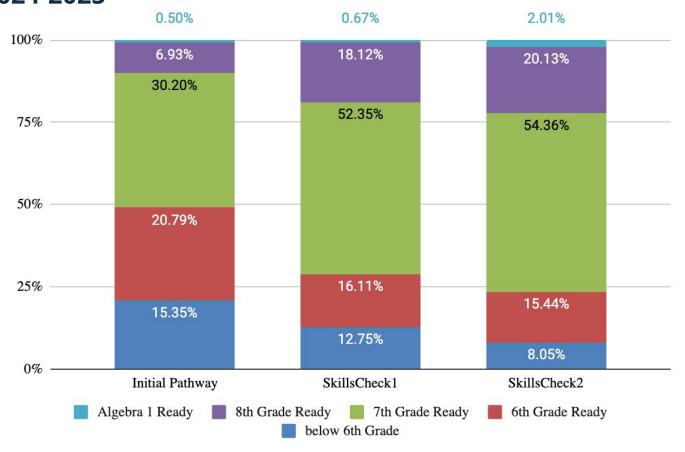


Large MT School Use Case:

Benchmark use only. EdReady study path was not used.



Pathway to Algebra - 149 students 2024-2025







Placement Case

Montana Board of Regents Placement Policy May 2024

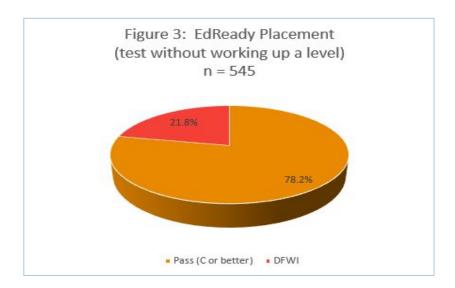


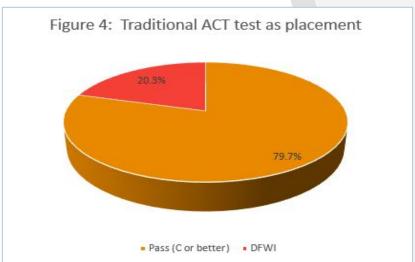
2. Campus placement guidelines should emphasize determining the level of support needed and appropriate course placement for students to pass gateway math and writing courses within the first year while minimizing credits to passing the course. To

align with national best practices, students are generally to be placed into college credit-bearing courses, and additional support such as corequisites should be added when appropriate. In rare cases when institutions demonstrate that students have a higher likelihood of success in a pre-requisite course than a credit-bearing college level course with support, institutions may offer a prerequisite model.

3. Campus placement models must include multiple measures, including academic measures, students' educational goals and degree paths, and college readiness skills. **Placement models should allow students opportunities to build skills to avoid pre-requisites and place directly into college-level courses.**







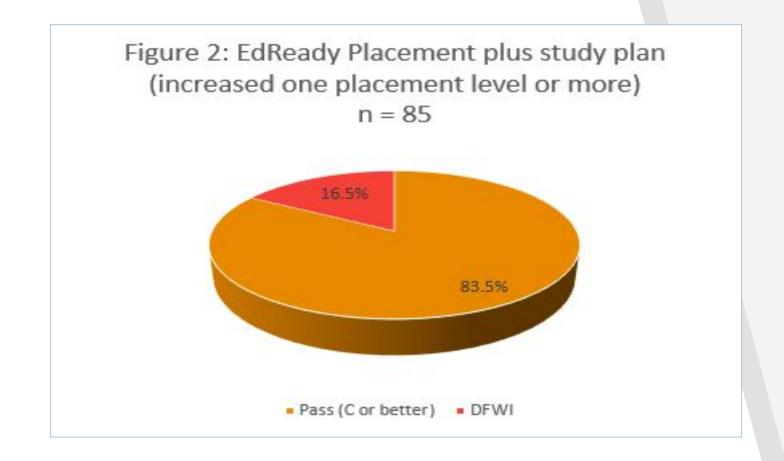
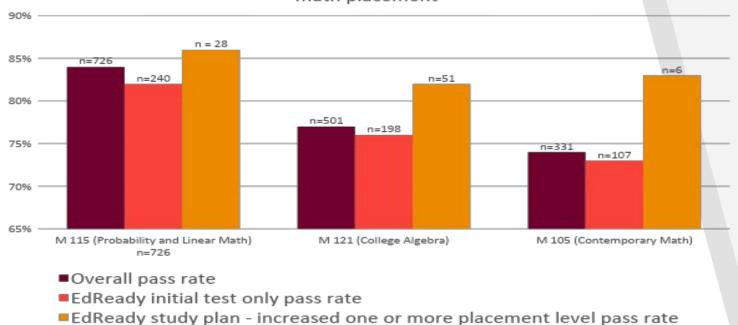


Figure 1: Gateway, college-level math course pass rates by overall student population and by students who used EdReady for math placement



Explaining the Scaled Initial Scoring

Initial EdReady Score Upon Completion of Diagnostic				
ER ID Score	Example Class Titles Only	Level Abbreviation		
<46	Pre-Algebra	Level 1		
46-48	Intro to Algebra	Level 1.5		
49-51	Intermediate Algebra/Non-STEM Math	Level 2		
52-54	CoReq College Algebra	Level 2.5		
55 - 65	College Algebra	Level 3		
66 - 69	Pre-Calculus	Level 4		
70+	Ready to test for Calculus	Level 4.5		

Explaining the Scaled Study Path Scoring

Study Path Improvement Scores			
ID Level -> Study Pathway Placement Level	Current ER Score		
Level 1 -> Level 1.5	65		
Level 1 or 1.5 -> Level 2	69		
Level 1 or 1.5 or 2 -> Level 2.5	73		
Level 1.5 or 2 or 2.5 -> Level 3	78		
Level 2.5 or 3 -> Level 4	97		
Level 4 -> Level 4.5	100		

Time for Questions

How Long Does Set Up Take?

What Are Our Next Steps?

What did you hear today that sparked your interest?

Do you have a need that we didn't address?



How long does training take??



Upcoming Events

Meet with our team members at these upcoming events to talk more about what EdReady can do for your students!

Be sure to join us for our upcoming November webinar, 'Generating Early College

Program Success: Closing the Readiness Gap' with Brenda Kurtz from Cochise College,

November 20th at 11am PT / 2pm ET! Check our website for further details!





Thanks for joining us today!

GET IN TOUCH

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Book a Demo:





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