

Introduction

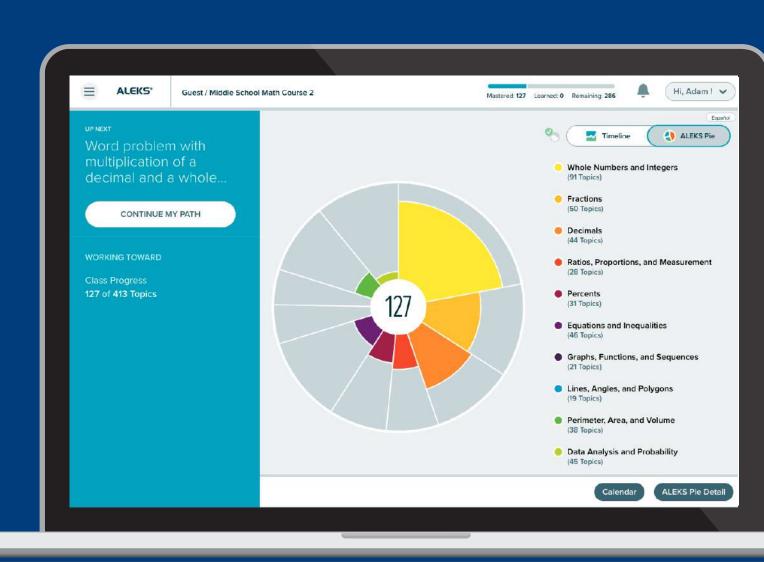
Evidence Based Learning

Student Experience

Teacher Experience

ALEKS Reporting

Support



Introduction

is a web-based, artificially intelligent assessment and learning system for grades 3–12. ALEKS uses adaptive questioning to quickly and accurately determine exactly what topics a student knows and doesn't know in a course. ALEKS then instructs each student on the topics they are most ready to learn. As a student works through a course, ALEKS periodically reassesses the student's knowledge to ensure that topics learned are also retained. It's an approach that has proven to create math confidence and measurable success for over 20 years. ALEKS courses align with state and national standards, making it a perfect complement to any classroom environment.

ALEKS® (Assessment and Learning in Knowledge Spaces)

at thousands of K–12 schools, colleges, and universities throughout the world. The proven technology of *ALEKS* can integrate with any system, anywhere, on any device. Educators can use ALEKS to: Identify instructional gaps.

To date, ALEKS has helped more than 20 million students

- Personalize learning paths. • Track the progress of student
- learning and mastery.



A recent study compared student outcomes on the AzMERIT End of Course assessments in schools that use ALEKS® against those that do not.

The Power of Evidence Based Learning

Students in Algebra I who used ALEKS did significantly better than those who did not with a 5.1% reduction in Level 1 (Minimally Proficient) scores and a 4.2% gain in

Level 4 (Highly Proficient) scores. The percentage of students scoring in Level 1 (Minimally Proficient) dropped for

Hispanic: 4.4% Students with a Disability: 12.3% **Designed to Ensure Mastery**

English Language Learners: 7.2%

In ALEKS, mathematically rigorous theory facilitates the development of computer algorithms for the construction and mapping of knowledge spaces. This enables ALEKS machine learning software to comprehensively investigate trillions of potential

knowledge states. This investigation accurately diagnoses each student's precise

knowledge of the subject and identifies what they are ready to learn next. ALEKS maps

ALEKS users in these specific subgroups:

Free and Reduced Lunch: 4.9%

KEY FINDINGS:

each student's evolving knowledge state and continuously refines the way topics are connected to each other. By presenting only the topics a student is most ready to learn next, ALEKS ensures a mastery rate of more than 90 percent. Click here for more information about the research behind ALEKS.

Creating a Personalized Learning Experience for Students

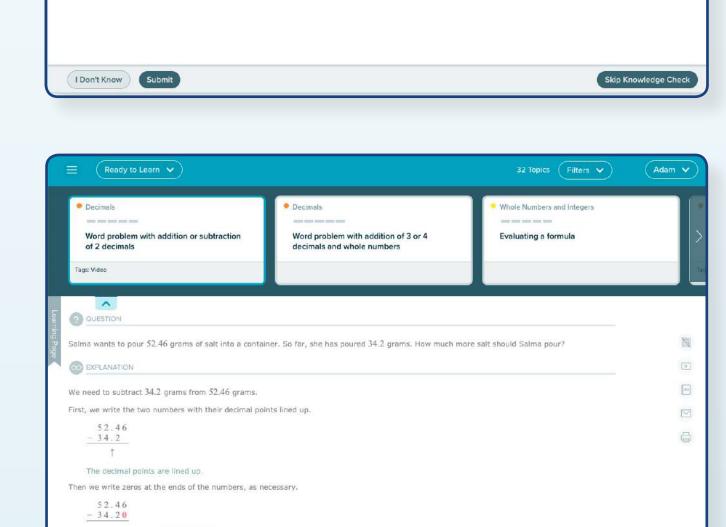
Angle PQR is a right angle The measure of angle SQR is 55°. The measure of angle PQS is x° .

What is the value of x?

The three-phase cycle of learning and assessment in ALEKS targets the unique needs of every student.

Understanding the three-phase cycle within the student experience

 $\chi =$



area), the colored section shows what a student knows. The gray area shows what the student

Assessment

has left to learn. **Personalized Learning**

As students work through their ready-to-learn topics, ALEKS provides immediate feedback,

detailed explanations, definitions, and other

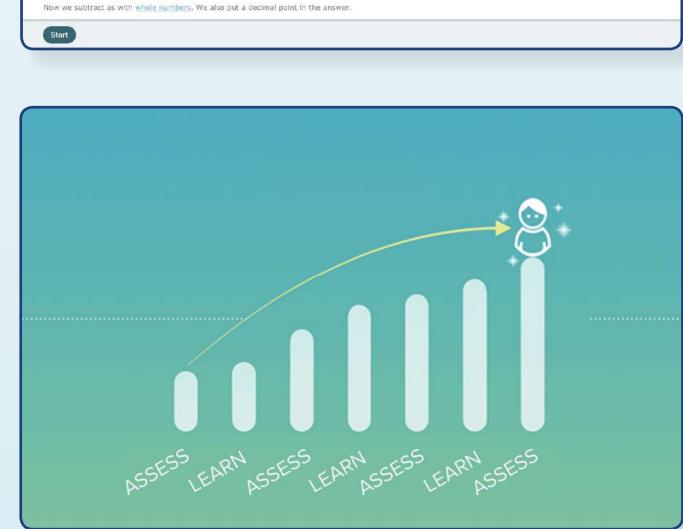
tools for building mastery.

Students begin with an Initial Knowledge Check

know, and what concepts they are ready to learn next. The results are summarized in the ALEKS Pie,

a tool that provides insight on student knowledge across multiple topics. Within each pie slice (topic

to accurately measure what they know, don't



As students learn new topics, *ALEKS* periodically rechecks their knowledge to ensure retention.

Continuous Reinforcement

students have not successfully mastered.

The system then provides remediation for topics

learning styles of all students. This ensures that they are working on the exact skills needed to effectively prepare for standardized testing while setting them up for college and career success.

Model 1

All ALEKS courses for grades 3–12 deliver standards-based content

correlated to state standards. By combining adaptive learning technology and comprehensive progress monitoring, ALEKS accommodates the unique

Customization for Teachers

ALEKS also offers the flexibility you need to support your math instruction while still accommodating the unique individual needs of all your students with three instructional models:

The Flexibility to Support Any Classroom Model

Truly Adaptive Customize Your ALEKS Course to **Match Your Instruction** This model is for the instructor who wants to maximize their use of the adaptive learning Perfect for blended learning, summer school, or technology in ALEKS to encourage concept credit recovery, this model benefits an instructor mastery and retention. Perfect for intervention, who requires mastery of prerequisite topics and acceleration, or enrichment blocks. the majority of course topics. This model allows

you to use adaptive assignments as homework

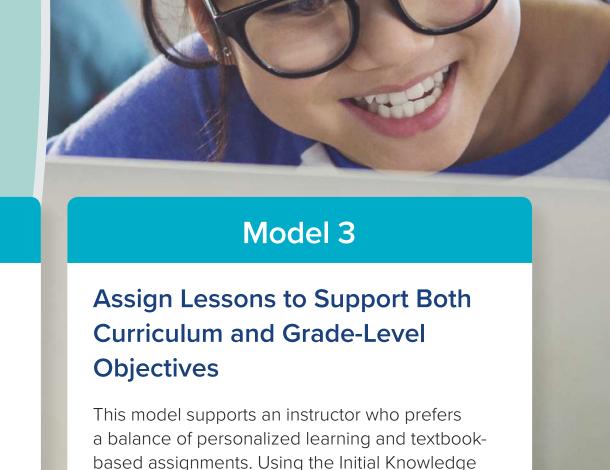
core mathematics curriculum to assess mastery.

and the chapter reviews, tests, or exams from your

Model 2

as homework, quizzes, or exams.

ALEKS reports are designed to provide real-time data and summary reports to help students and teachers monitor usage, track progress, and identify areas of growth or areas where students could use additional support. The actionable data provided in these reports will help you plan for full-class and small-group instruction and intervene with individual students, as needed.



Check, you can identify any potential gaps in

remediate them with adaptive prerequisite review assignments while using non-adaptive assignments

your students' foundational knowledge and

and in Learning Mode at various time intervals. These reports allow you to track student progress, see how well they are retaining new learning, and ensure they can get intervention when they need it the most.

Math 103 / Mathematics - LV 5 (with QuickTables) (31 🕹) 🗸

Math 103 / Mathematics - LV 5 (with QuickTables) - Progress Report

Class Administration Gradebook Reports Assignments QuickTables

ALEKS°

Progress Report

ALEKS Reporting

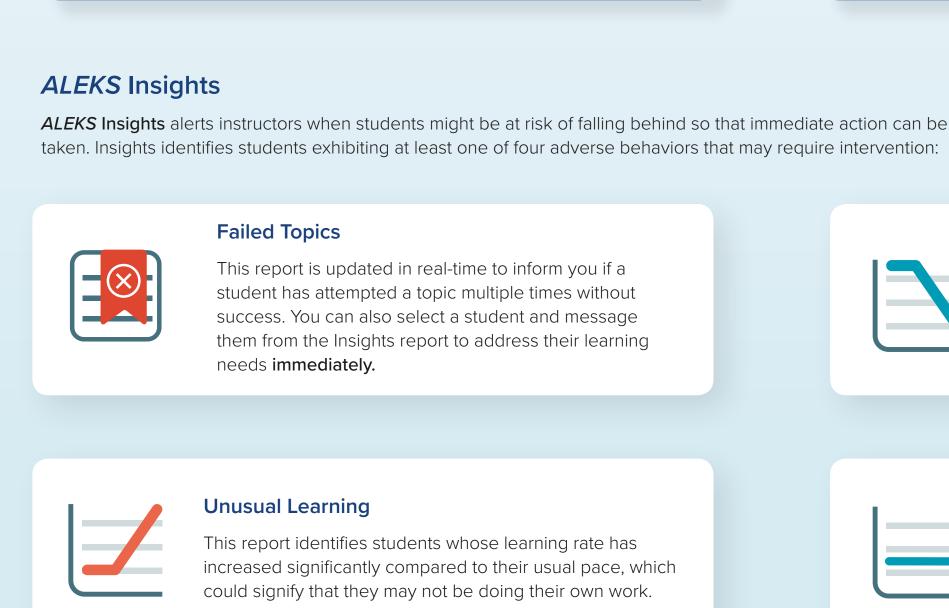
Tips P Tutorial O Number of Students Included in This Report: 31 Logged-in Students: 0 Show: Learning Progress Since Latest Knowle... V Show: All Students Legend: Content mastered based on the Knowledge Check Progress made in Learning Mode Content Remaining

* Knowledge Check in progress

Student logged in

Class Code: XXXXX-XXXXX CLASS TOOLS

Using Progress Reports, you can view student progress on Knowledge Checks



42h 41m 02/26/2021 02/15/2021 02/15/2021 6:00 AM 42m 36s 142 +26 / 261 topics

Time & Topic Report

ALEKS"

Download Excel Spreadsheet Group Filter: All Students ➤ Number of Students: 31 Logged-in Students: 10

Feb 19

Feb 21

This report allows you to monitor the amount of time individual students are

spending on ALEKS Knowledge Checks, Learning Mode, and assignments.

Math 103 / Mathematics - LV 5 (with QuickTables) (31 🎂) 🗸

Math 103 / Mathematics - LV 5 (with QuickTables) - Time and Topic Report

Graph: □ay □ Total Time ∨ Display Hide Grap

Feb 17

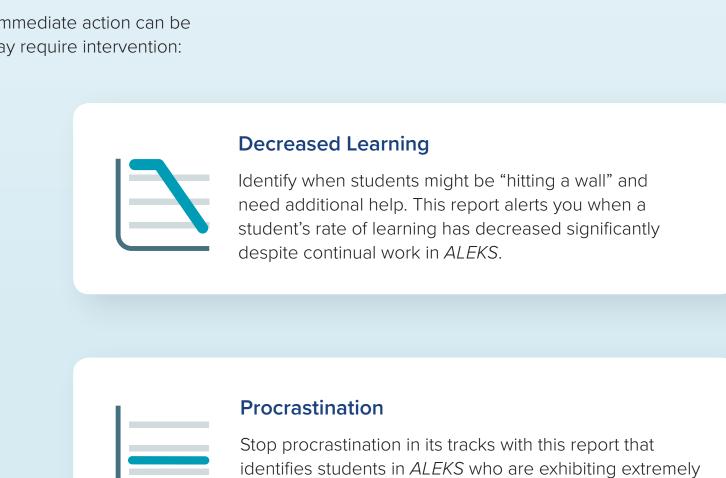
It also allows you to monitor the number of topics a student has attempted over

a particular period of time and how many of those topics the student has learned.

Report from 02/13/2021 to 02/27/2021 (Change Date Rance)

Class Total - Time Spent in ALEKS by Day

P Hello Adam Gray - | Community



long periods of inactivity.

Whether you need help with implementation or are wanting professional development resources, ALEKS offers comprehensive customer support.

Have technical questions about *ALEKS*? Our expert customer support

on weekdays to help meet the needs of you and your students.

representatives are here to help! On our Support Page, you can find frequently

asked questions, system requirements, and dates/times to reach us. ALEKS customer service is available seven days a week and offers extended hours

The ALEKS implementation team provides support to educators throughout the

entire implementation process from start to finish. The ALEKS implementation team also offers live trainings for new users. These trainings provide an overview of the



ALEKS system, share best practices for use, answer questions about your ALEKS implementation, and provide a guided exploration through ALEKS on how to find

Implementation Team

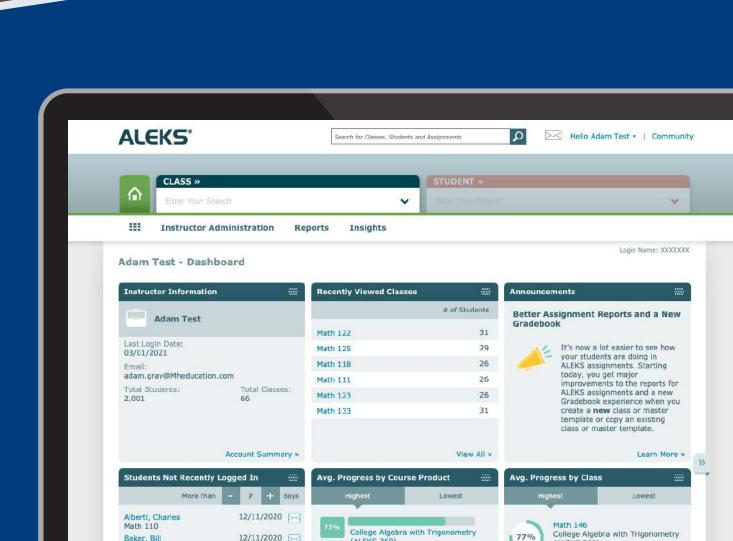
ALEKS Support

and utilize its most commonly used features. **Customer Service**

On-Demand Training Our Training Center is your go-to place for on-demand resources—including user guides, videos, and printable tutorials on how to complete common tasks

that you'll be doing in ALEKS.

ALEKS PPL



ALEKS® Placement, Preparation, and Learning (ALEKS PPL) offers a unique combination of adaptive assessments and personalized learning, and accurately

identifies students' readiness for college-level math. Inspired by ALEKS, the award-winning ALEKS PPL provides a complete solution that empowers collegebound students to practice skills to improve preparation and progress in achieving their goals. **ALEKS Chemistry**

ALEKS Chemistry provides extensive coverage of high school level chemistry, including Next Generation Science Standards (NGSS) and prerequisite concepts ranging from essential algebra to physics. It's suitable for use in both general chemistry and honors classes.

to learn more about ALEKS.

Visit www.mheonline.com/aleks



