

Introduction

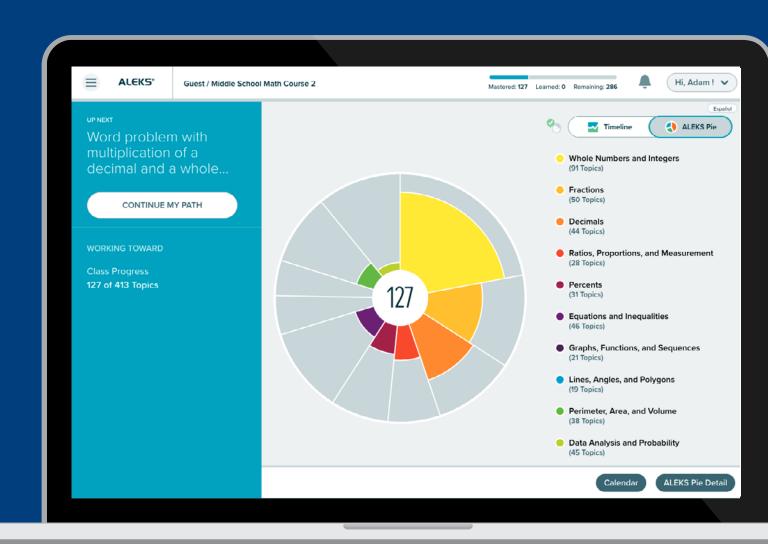
Research-Based Learning

Student Experience

Teacher Experience

ALEKS Reporting

Support



Introduction

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)

is a web-based, artificially intelligent assessment and learning

To date, ALEKS has helped more than 20 million students 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.

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

ALEKS was developed at the University of California by cognitive scientists, software

The Power of Research-Based Learning

engineers, mathematicians, and educators. It is the product of decades of research that was supported by the National Science Foundation. Its unique approach to instruction

Developed by cognitive scientists

is based on Knowledge Space Theory, which holds that: Knowledge is not linear; it's a complex web of interrelated topics. Learners make unique connections within this web and navigate

Understanding how students learn is pivotal in creating individualized learning pathways that accelerate concept mastery

Designed to Ensure Mastery

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

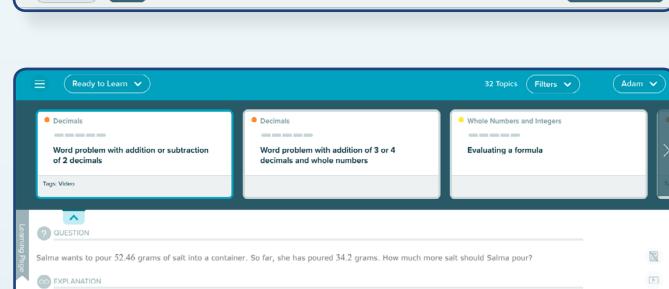
knowledge of the subject and identifies what they are ready to learn. ALEKS maps

it differently.

each student's evolving knowledge state and continuously refines the way topics are connected to each other. By presenting 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*

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

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



Δα We need to subtract 34.2 grams from 52.46 grams. First, we write the two numbers with their decimal points lined up. \square The decimal points are lined up. Then we write zeros at the ends of the numbers, as necessary Now we subtract as with whole numbers. We also put a decimal point in the answer

has left to learn.

Assessment

Personalized Learning

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

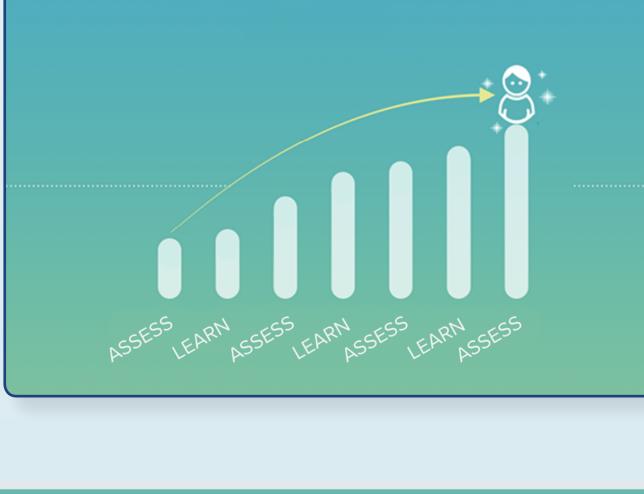
detailed explanations, definitions, and other

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

to accurately measure what they know, don't



rechecks their knowledge to ensure retention. The system then provides remediation for topics students have not successfully mastered.

Continuous Reinforcement

As students learn new topics, *ALEKS* periodically

Model 3

Assign Lessons to Support Both

This model supports an instructor who prefers

a balance of personalized learning and textbook-

based assignments. Using the Initial Knowledge

Check, you can identify any potential gaps in

Curriculum and Grade-Level

Objectives

them up for college and career success. 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

This model is for the instructor who wants to

maximize their use of the adaptive learning

technology in ALEKS to encourage concept

acceleration, or enrichment blocks.

mastery and retention. Perfect for intervention,

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 learning styles of all students. This ensures that they are working on the exact

skills needed to effectively prepare for standardized testing while setting

Customization for Teachers

The Flexibility to Support Any Classroom Model

Model 1

instructional models:

Truly Adaptive

ALEKS Reporting

can get intervention when they need it the most.

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

Class Administration Gradebook Reports Assignments

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

■ Content mastered based on the Knowledge Check
■ Knowledge Check in progress
■ Student logged in

Model 2

Customize Your ALEKS Course to

Perfect for blended learning, summer school, or

credit recovery, this model benefits an instructor

who requires mastery of prerequisite topics and

the majority of course topics. This model allows

you to use adaptive assignments as homework

and the chapter reviews, tests, or exams from your

Match Your Instruction

your students' foundational knowledge and core mathematics curriculum to assess mastery. remediate them with adaptive prerequisite review assignments while using non-adaptive assignments 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.

ALEKS Insights

Progress Report

ALEKS'

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

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

Class Code: XXXXXX-XXXXXX CLASS TOOLS

ALEKS Insights alerts instructors when students might be at risk of falling behind so that immediate action can be taken. Insights identifies students exhibiting at least one of four adverse behaviors that may require intervention: **Failed Topics** This report is updated in real-time to inform you if a student has attempted a topic multiple times without success. You can also select a student and message them from the Insights report to address their learning needs **immediately**. **Unusual Learning**

Feb 17 Feb 19 Feb 21 Download Excel Spreadsheet Group Filter: All Students ✓ Number of Students: 31 Logged-in Students: 10

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

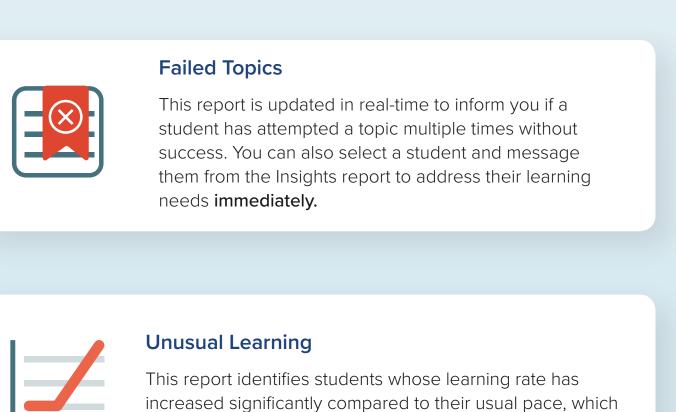
Graph: Day ▼ Total Time ▼ Display Hide Grap

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 F

Class Total - Time Spent in ALEKS by Day



could signify that they may not be doing their own work.



Implementation Team

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

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 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

Customer Service

and utilize its most commonly used features.

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.

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

Better Assignment Reports and a New

your students are doing in ALEKS assignments. Starting today, you get major improvements to the reports for ALEKS assignments and a new

create a **new** class or master template or copy an existing class or master template.

of Students

View All »

Math 122

12/11/2020 🖂

12/11/2020

Login Name: XXXXXXXX

Learn More »

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 provides extensive coverage of

for use in both general chemistry and honors classes. Visit www.mheonline.com/aleks

high school level chemistry, including Next Generation Science Standards (NGSS) and prerequisite concepts ranging from essential algebra to physics. It's suitable



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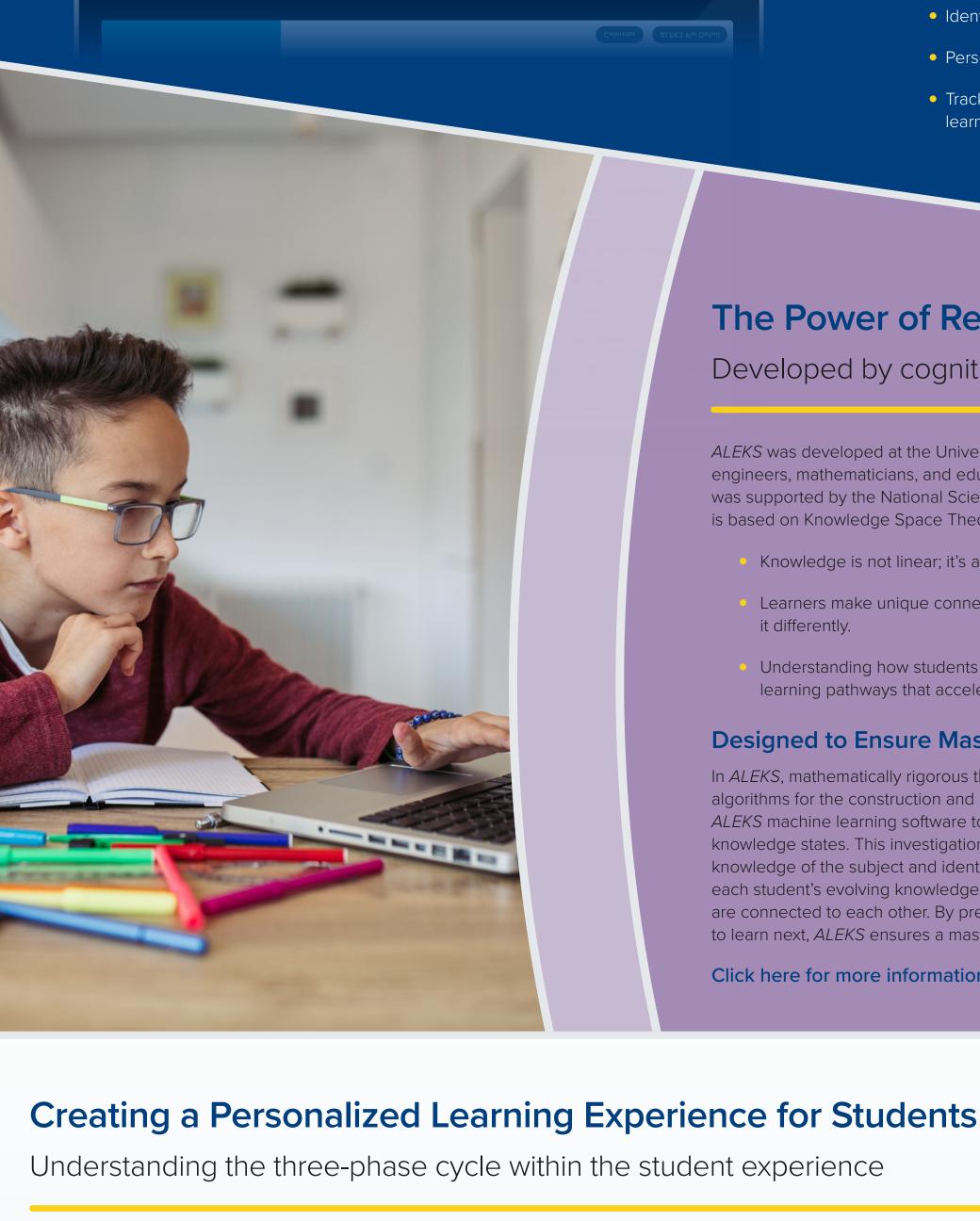
Instructor Administration

Adam Test - Dashboard

Adam Test

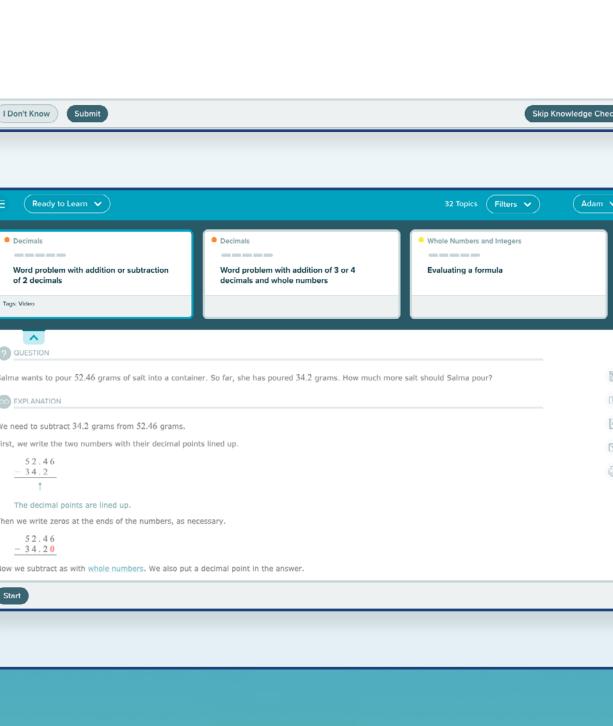
adam.gray@Mheducation.cor





Angle PQR is a right angle. The measure of angle SQR is 55°. The measure of angle PQS is x^{o} .

What is the value of x?



2000

Time & Topic Report

ALEKS°



Decreased Learning

Identify when students might be "hitting a wall" and

need additional help. This report alerts you when a

ALEKS PPL

ALEKS Chemistry

