



ALEKS®

Learning as Unique as Every Student

Personalized Learning
for Mathematics

**2019 SIIA CODiE™
Award Winner**
Best Mathematics
Instructional Solution
for Grades 9–12 &
Higher Education




**CELEBRATING 20 YEARS HELPING STUDENTS
SUCCESSFULLY REACH MATH MASTERY!**

ALEKS.com/k12



Teach Math the Way Students Learn

ALEKS® is a research-based, data rich, online math solution for grades 3–12 that uses artificial intelligence to identify and provide instruction on the topics each student is most ready to learn. It's an approach that has proven to create math confidence and measurable success for over 20 years.

A photograph of a classroom setting. In the foreground, a young man with short dark hair and glasses, wearing a grey sweater over a black shirt, is looking at a tablet. Next to him, a young woman with long dark hair, wearing a red shirt, is also looking at the tablet and smiling. In the background, other students are visible, including a boy in an orange shirt and a girl in a yellow shirt, all appearing to be engaged in their work.

“Even as we are working to exit more kids out of Intensive Math, some of those kids don’t want out because they are seeing success with *ALEKS*.”

- Deborah Pickett, Pasco County, Florida

Personalization for Each Student

ALEKS® helps each student meet rigorous standards with differentiated instruction specific to his or her unique needs by creating an individualized learning experience that is:



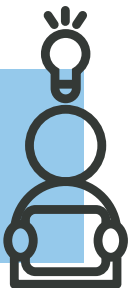
Personalized

ALEKS creates personalized learning pathways that lead every student to mastery with periodic assessments to pinpoint knowledge gaps.



Focused

ALEKS uses adaptive technology to offer students a selection of topics they are most ready to learn. Students are challenged, but never frustrated or bored.



Insightful

ALEKS provides actionable data to guide instruction with customizable reports that show student progress, mastery, and time on task. With *ALEKS*, it's easier than ever to provide students with individualized instruction based on their unique needs.

The power of *ALEKS*, in Spanish

Located at the top of every page, the English-Spanish toggle lets students switch back and forth from English to Spanish instruction—including program interface and all contents.

How ALEKS® Personalizes Instruction

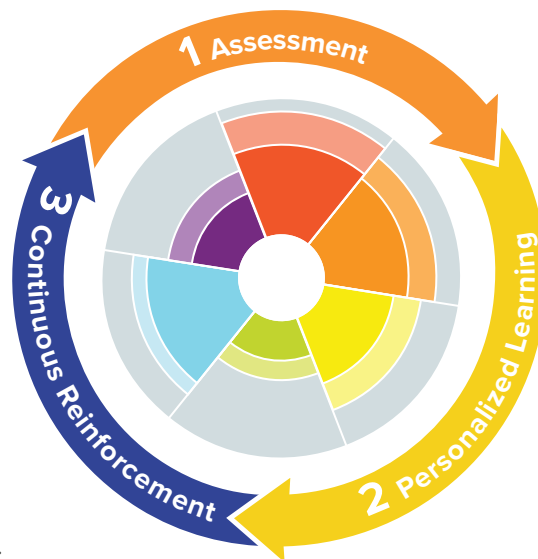
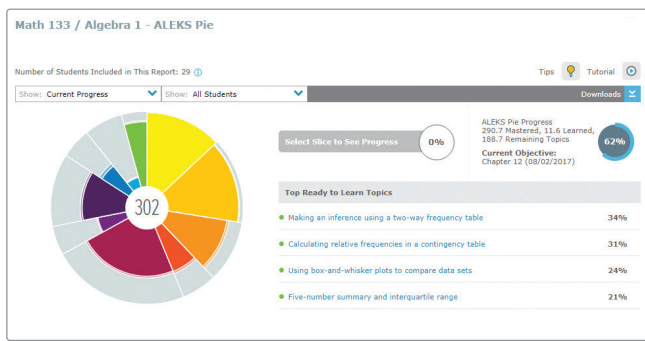
The three-phase cycle of learning and assessment in ALEKS targets the unique needs of every student.

1

Assessment

Students begin with an Initial Knowledge Check to accurately measure what they know, don't 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 has left to learn.

The ALEKS Pie provides teachers with an in-depth analysis on how each student is progressing on multiple topics.



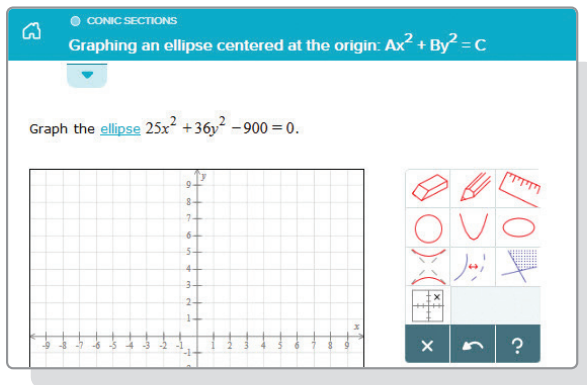
2

Personalized Learning

As students work through their ready-to-learn topics, ALEKS provides immediate feedback, detailed explanations, definitions, and other tools for building mastery.

ALEKS offers:

- A unique problem algorithm that generates a different, leveled problem set for every student, every time;
- Detailed explanations for every problem including a dictionary and video resources;
- Open-response problems and intuitive input tools within Learning Mode that provide a more authentic measure of conceptual understanding; and
- Content that is aligned to state and national standards.



◀ Students can demonstrate skills mastery in Learning Mode by using tools to solve open-response problems.

3

Continuous Reinforcement

As students learn new topics, *ALEKS* periodically rechecks their knowledge to ensure retention. The system then provides remediation for topics students have not successfully mastered.

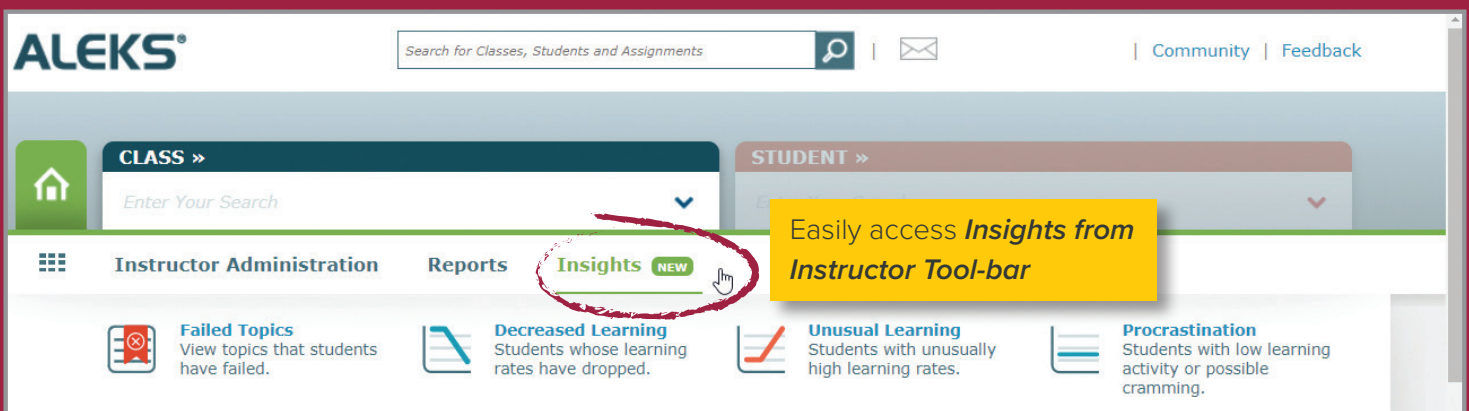
NEW! ALEKS Insights

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.



Winner of
**Digital
Edge 50
Award**

- **TOPICS FAILED:** Students who have attempted content multiple times without success
- **LEARNING DECREASED:** Students who show a significant drop in successful learning despite continuous time spent in the system
- **UNUSUAL LEARNING:** Students who show a significant increase compared to previous learning, which may signify students not doing their own work
- **PROCRASTINATION:** Students whose time spent in *ALEKS* varies, showing long periods of inactivity

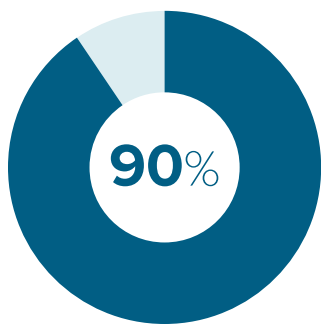


The Power of Research-Based Learning

Cutting-edge, cognitive research has inspired the creation of technology-based tools to make learning more effective.

Designed to Ensure Mastery

ALEKS® maps 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.



With ALEKS, students achieve mastery more than 90 percent of the time.

Developed by Cognitive Scientists

ALEKS is the product of decades of research with support from the National Science Foundation. Its unique approach to instruction 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 it differently.
- Understanding how students learn and creating unique learning pathways accelerates concept mastery.

Prepare Students for College-Level Math

High school is a crucial time for students to begin planning for college success. *ALEKS*® ***Placement, Preparation and Learning's*** (*ALEKS PPL*) unique combination of adaptive assessments and personalized learning, accurately identifies students' readiness for college-level math.

Meets State and National Standards

All *ALEKS*® courses for grades 3–12 deliver standards-based content correlated to the Common Core State Standards and the standards of all 50 states. By combining adaptive learning technology and comprehensive progress monitoring, *ALEKS* accommodates the unique learning styles of all students, ensuring they are working on the exact skills needed to effectively prepare for standardized testing and become college and career ready.

Focused, Differentiated Instruction

Flexible reporting options keep students and educators on track:

- Regular Knowledge Checks provide robust data essential for focused instruction.
- An open-response environment gives educators a clear picture of student understanding.
- Adaptive learning technology uses Knowledge Check results to pinpoint crucial concepts that students should know.

ALEKS can be utilized as a progress monitoring tool for standards-based instruction.

Detailed Data

Real-time reporting allows educators to:

- Measure progress at the student, class, school, and district levels;
- View progress and ready-to-learn topics related to a specific math standard; and
- Gain insight on standardized assessment performance and remediate potential knowledge gaps.

Inspired by *ALEKS*, the award-winning *ALEKS PPL* provides a complete solution that empowers college-bound students to practice skills to improve preparation and progress in achieving their goals.

Go to: aleks.com/HSPPL



ALEKS® PPL

2019 SIIA CODiE™ Award Winner

Best Summative Student Assessment Solution and
Best College & Career Readiness Solution



ALEKS[®]

for chemistry

A Game-Changer in Chemistry Classes

Every student enters a chemistry class with unique needs informed by varied levels of foundational science and math knowledge. Introducing **ALEKS[®] Chemistry**.

ALEKS Chemistry provides extensive coverage of chemistry at the high school level, including the NGSS high school standards, essential algebra, and physics pre-requisite concepts. It's suitable for use in both general chemistry and honors classes.

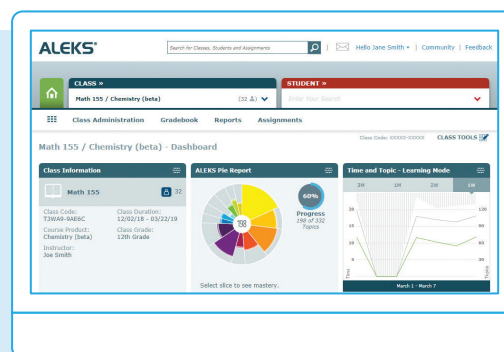


ALEKS creates a unique learning path for each student.



ALEKS Chemistry features:

- Customization of content within a course to a specific curriculum and sequence of instruction;
- Easy access from any web-enabled device, allowing students to log in during in-class practice time, in-school computer lab time, or for homework;
- An algorithm that generates a unique problem set for every student, every time;
- Detailed explanations for every problem;
- Pie reports that provide in-depth analysis of student progress in multiple topics; and
- Dynamic data at the student, class, school, and district levels.



Sign up for
a free trial
today!

**[aleks.com/
free_trial](https://aleks.com/free_trial)**



To learn more about **ALEKS**, visit:
[ALEKS.com/k12](https://aleks.com/k12)