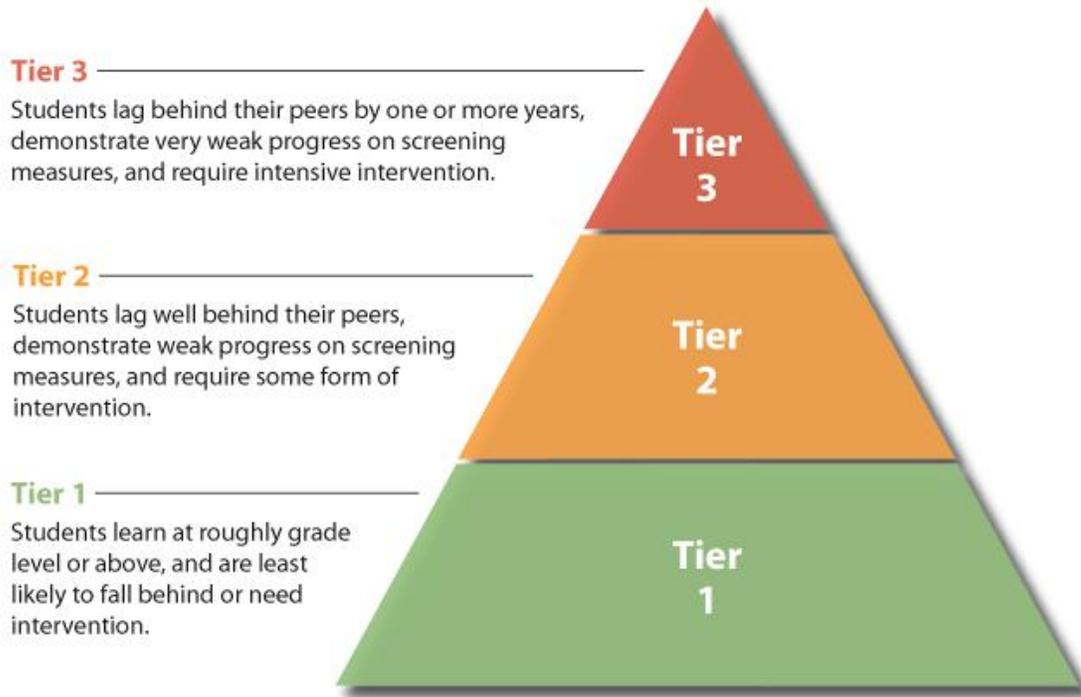


What is RtI?

Response to Intervention (RtI) is an early detection, prevention, and support system that attempts to identify and assist struggling students with appropriate levels of intervention. Students are categorized into three tiers within the RtI framework. According to researchers, the three tiers are as follows:



The majority of students fall into Tier 1. They are learning at roughly grade level or above, are not likely to fall behind, and are least likely to need intervention.

A large group of students fall into Tier 2. Students in this tier lag behind their classroom peers by roughly one academic year, demonstrate weak progress or difficulties on screening measures, and require intervention. Intervention usually involves additional assistance, such as regular supplemental instruction in small groups, and progress monitoring. This tier is where software programs have the most proven potential to serve a central role in intervention.

Tier 3 is the smallest group of students with the greatest need. Students in Tier 3 lag behind their classroom peers by a minimum of one academic year, demonstrate weak progress or difficulties on screening measures, and require intervention with intensive, individualized assistance. Human interaction and ongoing monitoring of student progress are vital in this tier.

The frequency and intensity of progress monitoring and intervention increase with each tier. This ensures that adequate levels of intervention are provided and that costs are minimized by saving the most extensive (and expensive) interventions for Tier 3 students.

What is ALEKS?

ALEKS (Assessment and LEarning in Knowledge Spaces) is a powerful, online math program that uses an artificial intelligence engine to provide precise assessment and individualized learning. Through adaptive questioning, ALEKS accurately assesses a student’s knowledge and then delivers highly-targeted instruction on the exact topics the student is most ready to learn.

ALEKS Response to Intervention course products offer universal screening and placement of students into appropriate Rtl tiers. Additionally, ALEKS provides individualized learning with immediate feedback, progress monitoring, bilingual content in English and Spanish, and ALEKS QuickTables to enable and motivate students to develop and consolidate essential math fact fluency.

MS Rtl Screening Assessment At the beginning of the school year, use this screening assessment with students in grades 6-8 to place them into an appropriate Rtl tier, if necessary

Rtl 6 Tier 2 intervention for students in grade 6

Rtl 7 Tier 2 intervention for students in grade 7

Rtl 8 Tier 2 intervention for students in grade 8

MS Rtl Tier 3 Tier 3 intervention for students in grades 6-8

Full Course Library Tier 1 course products for students in grades 3-12, featuring individualized assessment and learning with standards-based content

How can ALEKS be implemented in Rtl programs?

Students can begin an ALEKS Rtl Tier 1 course product, an Rtl Tier 2 course product, or MS Rtl Tier 3 if they have already been placed into an Rtl tier.

	Grade 6	Grade 7	Grade 8
Tier 1	Mathematics - MS/LV 6	Middle School Math Course 2 or Middle School Math Course 3	Middle School Math Course 2, Middle School Math Course 3, or Pre-Algebra
Tier 2	Rtl 6	Rtl 7	Rtl 8
Tier 3	MS Rtl Tier 3		

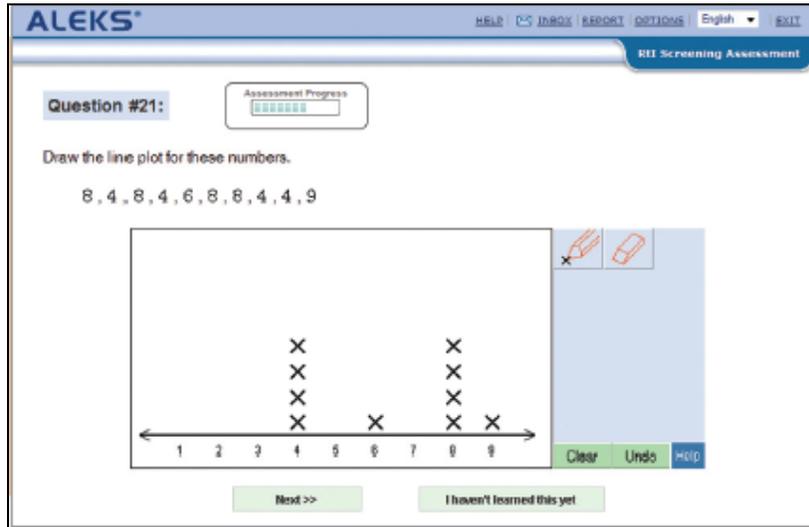
If students have not yet been placed into an appropriate tier, schools and districts can screen students at the beginning of the school year using the MS Rtl Screening Assessment. Based on their assessment results, students can then be placed into an appropriate ALEKS course.

	MS Rtl Screening Assessment Results	Rtl Tier	Recommended Course
Grade 6	More Than 25%	Tier 1	Mathematics - MS/LV 6
	10% - 25%	Tier 2	Rtl 6
	Less Than 10%	Tier 3	MS Rtl Tier 3
Grade 7	More Than 35%	Tier 1	Middle School Math Course 2 or Middle School Math Course 3
	15% - 35%	Tier 2	Rtl 7
	Less Than 15%	Tier 3	MS Rtl Tier 3
Grade 8	More Than 40%	Tier 1	Middle School Math Course 2, Middle School Math Course 3, or Pre-Algebra
	15% - 40%	Tier 2	Rtl 8
	Less Than 15%	Tier 3	MS Rtl Tier 3

How does ALEKS fit into the Rtl framework?

ALEKS has the ability to address all of the Rtl requirements through screening and progress monitoring assessments, individualized instruction, basic skills practice with ALEKS QuickTables, and dynamic reporting to provide essential input to human interventionists.

ALEKS offers a “formative” assessment that can place students into the appropriate tier and immediately identify the at-risk students. The individualized, adaptive assessment avoids multiple-choice questions, and employs flexible and easy-to-use answer input tools that mimic the functionality of paper and pencil. This provides accurate reports of each student’s current knowledge of the curriculum, which allows for more effective, targeted interventional instruction without the noise generated by multiple-choice exams.



With ALEKS, curriculum-based measurements do not have to be paper-based or consume major class time and instructional resources. There is no increased cost of administration because ALEKS computes a student's current knowledge instantly, and can generate a report at the end of a student's assessment, containing not only percentage scores, but also a detailed breakdown of topic mastery. ALEKS provides a detailed and comprehensive report of exactly what the student knows, doesn't know, and is ready to learn. Educators can therefore make decisions for instruction and intervention based on real-time data. If used as part of intervention and general education programs, ALEKS can provide dynamic documentation of progress across all tiers.

Reporting

Individual learning progress since latest assessment

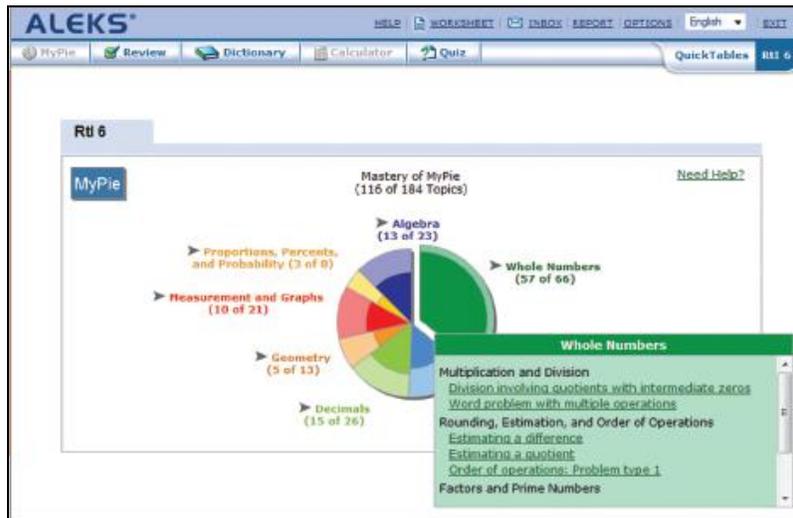
[Download Excel Spreadsheet](#)

Rtl 6

Number of Students: 33 Logged-In Students: 21

Last Name/Student ID	Total time in ALEKS (hrs)	Last login	Last assessment	Performance goal	Current learning rate (Time to completion Knowledge per topic)			
					Topics learned per hour of use	Topics learned per week	Topics learned per month	Topics learned per year
BALBERTO	14.0	02/10/2010	01/21/2010	24 +11 %	3.9	5.2	7.0	2.9
BIXON	40.3	02/05/2010	01/20/2010	47 +10 %	2.1	8.5	7.9	2.3
BOOE	28.6	02/06/2010	01/23/2010	54 +13 %	2.5	9.3	12.0	2.0
BRESH	42.5	02/06/2010	01/20/2010	71 +12 %	1.9	11.0	7.3	2.9
BWAGNER	42.4	02/07/2010	01/21/2010	53 +11 %	2.0	10.4	8.6	2.4
COORINS	13.8	02/07/2010	01/20/2010	37 +8 %	3.7	5.7	8.2	2.8
HALBERT	35.3	02/05/2010	01/18/2010	57 +8 %	2.2	8.0	6.3	2.9
HAWAREN	37.0	02/09/2010	01/20/2010	64 +12 %	2.1	10.3	7.7	2.9
JBAKER	40.1	02/06/2010	01/18/2010	57 +12 %	2.1	10.7	7.3	3.0
JCOLZANO	37.7	02/09/2010	01/24/2010	58 +12 %	2.2	8.3	7.9	2.3
JOXONG	31.9	02/07/2010	01/18/2010	39 +10 %	2.3	8.3	6.7	2.9
JFISHER	33.4	02/08/2010	01/20/2010	68 +13 %	2.3	10.4	8.8	2.7

ALEKS interacts with students much like a human tutor, with the ability to assess precisely a student's current mathematical knowledge and provide systematic and explicit instruction on the topics that the student is most ready to learn. The student and teacher will be able to view the results in a color-keyed pie chart. The ALEKS Pie provides not only a quick and organized view of a student's readiness in mathematics, but it also acts as a personalized learning path through the course. The darkened portion of each pie slice represents the topics that the student has mastered and the lighter portion represents what the student has yet to learn.



In the Learning Mode, ALEKS provides immediate feedback to students regarding their responses, as well as detailed explanations, alternate explanations, and supplemental information on terms and concepts introduced in a problem. As a result, ALEKS can help students achieve success, while simultaneously saving teachers time.

Since ALEKS avoids multiple-choice questions and the opportunity to practice problems is extensive, interventionists can be certain that students actually are learning the concepts rather than cycling through a question/answer bank.

ALEKS[®] HELP | WORKSHEET | INBOX | REPORT | OPTIONS | English | EXIT

MyPie | Review | Dictionary | Calculator | Quiz | QuickTables | Rtl 6

A bag with 8 marbles is shown below. A marble is chosen from the bag at random. What is the **probability** that it is red or blue?

Write your answer as a **fraction in simplest form**.

$\frac{7}{8}$

Undo Undo Help

Next >> Explain

ALEKS periodically re-evaluates students using ALEKS Progress Assessments to check for topic mastery and retention. Progress Assessments are triggered automatically when a student spends an adequate amount of time in the program, and they can also be scheduled by teachers to occur at specific time periods.

Reporting Print

Individual detailed progress history
Full progress over last 6 months

Full progress over last 6 months ▾

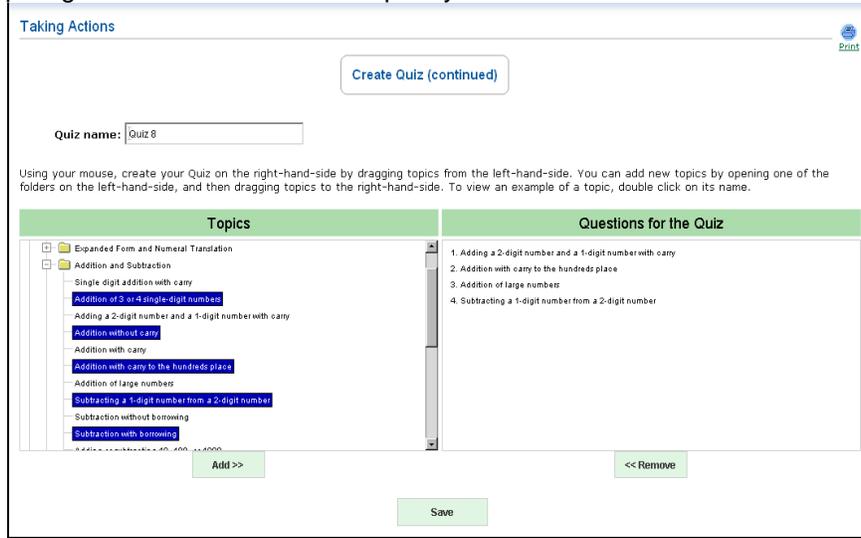
[Download Excel Spreadsheet](#)

Rtl 6

Number of Students: 30 Logged-in Students: 0

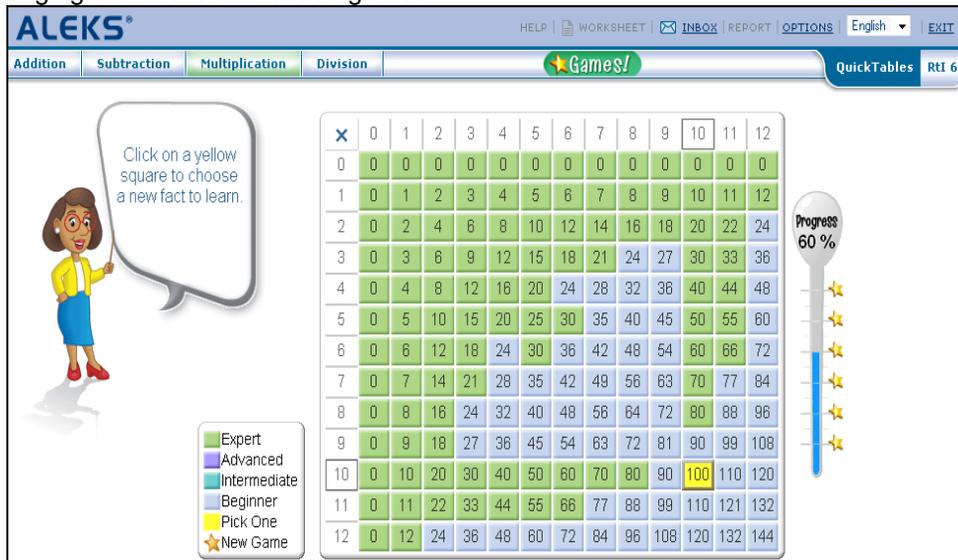
Name (Login/Student Id)	Total time in ALEKS (hrs)	Last login	Last assessment	Reason	Assessment performance		Time to completion (Time to top grade Current learning rate)			
					goal	grade	hours per week	topics learned per hour of use	expected hours necessary to reach the goal	expected weeks necessary to reach the goal
Bolzano, Kelly	19.3	02/27/2010	02/09/2010	Progress Assessment			2.2	3.3	25.8	12.0
			01/27/2010	Progress Assessment			2.4	4.3	23.4	9.8
			12/23/2009	Requested Assessment 3		F	0.8	6.1	18.6	24.8
			10/26/2009	Initial Assessment			0.2	10.6	12.2	52.2
Boubaki, Paul A.	32.0	02/23/2010	02/05/2010	Progress Assessment			3.0	2.6	22.6	7.6
			01/08/2010	Progress Assessment			2.0	2.9	23.5	11.5
			12/02/2009	Requested Assessment 2		F	1.1	3.7	24.6	22.9
			11/12/2009	Progress Assessment			1.4	5.3	19.8	14.4
			10/24/2009	Initial Assessment			0.8	9.6	12.3	14.6

In addition, teachers can design ALEKS Quizzes and Homework to include precise topics from the course content to meet specific student and course needs. These custom assignments consist of algorithmically-generated, free-response problems requiring authentic mathematical input by the student to demonstrate mastery.



ALEKS QuickTables is fully integrated with ALEKS Rtl course products and enables students in all three Rtl tiers to develop and consolidate essential math fact fluency.

ALEKS QuickTables is a research-based, math fact mastery program for multiplication, division, addition, and subtraction. The online program offers an interactive Student Module with ongoing assessment, learning, review, and visual tracking of student progress. The state-of-the-art assessment and learning technology employed by the program accurately measures the skill level of each student, and individually targets math fact practice, while motivating students with challenging arithmetic skill-based games.



Where can you learn more about ALEKS Rtl course products?

For more information on how to target intervention and improve student success, please visit www.aleks.com/k12/rtl or contact info@aleks.com.

ALEKS student subscriptions can be purchased now and activated when you are ready to use them. In addition to 40-week subscriptions, one, two, three, five, seven, and twelve month subscriptions are available. **ALEKS does not require a site license, minimum purchase, or set-up fees.**