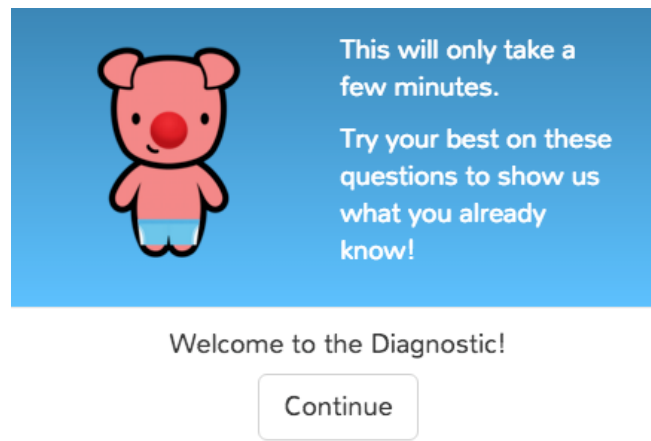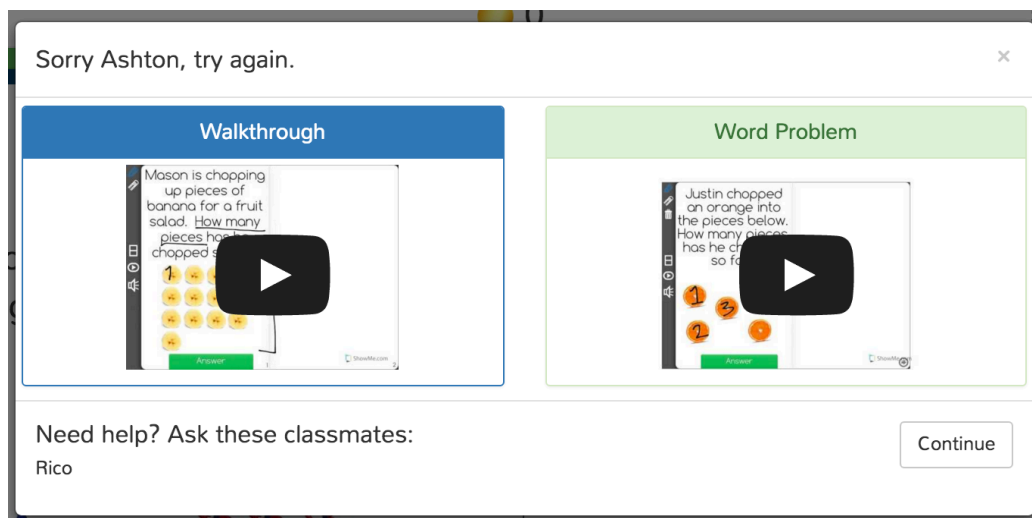# How does Front Row's adaptive program work?

Math program:

For each domain, students start with a pre-test. This pre-test determines their level, and students work from that point onward.

When students do well on a topic, we considered it mastered. There is no set number of questions it takes to reach mastery - it's a more involved process that takes timing, order, difficulty, and accuracy into account.

When students struggle with a topic, Front Row automatically remediates them. This means that we use the Front Row adaptive algorithm and the standard breakdowns to work through material that supports understanding of whatever the student is having trouble with.

Front Row automatically reviews concepts the student struggled with in the past. When a student has trouble with something, the program first works towards remediating the student and helping him/her master it. Then, it regularly reviews that topic with the student in the future. Every time a student sees a "bonus question" with extra coins - that's what's happening.

ELA program:

Front Row's ELA program measures reading level based on students' ability to comprehend text as various complexity levels. We associate these levels with approximate grade levels.

When students take the ELA diagnostic, they read several passages at different reading levels and answer comprehension questions that span a variety of reading skills. A student's performance on the diagnostic helps estimate his or her reading level.

All of the articles in Front Row's ELA library are written at 5 different reading levels. Each level encompasses a range of reading levels. For example, the highest level of an article may be 7.9 for one topic while the highest level for another topic may be 8.2.

Ocean Acidification
Science

The Earth's oceans are large and full of life. Scientists have discovered close ...

Explicit Information, Summarizing & Main Ideas

Available at 5 grade levels

The Space Needle
Places

The Space Needle is an iconic Seattle landmark. It was originally built for the ...

Analyzing Connections, Claims & Evidence

Available at 5 grade levels

Día de los Muertos (Day of the Dead)
Events

Día de los Muertos is a holiday originating in Mexico to honor those who have p ...

Word Meaning & Choice, Claims & Evidence

Available at 5 grade levels

Coffee
Food

Coffee has rooted itself deeply in society. It is hard to go a block in a city ...

Summarizing & Main Ideas, Word Meaning & Choice, Text Structure & Development

Available at 5 grade levels

Every time a teacher assigns students an article, the program automatically recommends the level of the article that is closest to each student's estimated reading level. That means that a teacher who wants to assign the *Fossils* article to an entire class may see an assignment page that displays a range of levels among his or her students.

Assign Article

Assign *Fossils* to your students

Student	Grade Level
Andy Warhol	Grade 3.3 — *Student has not completed ELA diagnostic*
Frida Kahlo	Grade 2.6
Georgia O'Keeffe	Grade 4.7
Henri Matisse	Grade 1.8
Jackson Pollock	Grade 3.3 — *Student has not completed ELA diagnostic*
Pablo Picasso	Grade 4.7
Salvador Dali	Grade 2.6

As students read and answer comprehension questions correctly on ELA assignments, their reading level increases. With successful completion of enough assignments, students' recommended reading levels can shift as well. The more students practice and complete assignments, the better the program will get at determining their reading comprehension level and growth over time. Teachers get data reports on how students are performing in ELA.

ELA Anchor Skills Report

Student	Level	# of Assignments	Explicit Information	Summarizing & Main Ideas	Analyzing Connections	Word Meaning & Choice	Text Structure & Development	Author's Intent	Presentation of Content	Claims & Evidence	Multiple Texts
Russell Wilson	790	5									
Michelle Smith	214	6									
Johnny Tsunami	675	5									
Michelle Kim	670	5									
Minnie Champion	420	6									
Bill Nye	540	8									
Jane Eyre	630	8									
Matilda Glenn	675	8									

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