



Frax

Make fractions *finally* make sense!

ExploreLearning Frax helps all students understand fractions

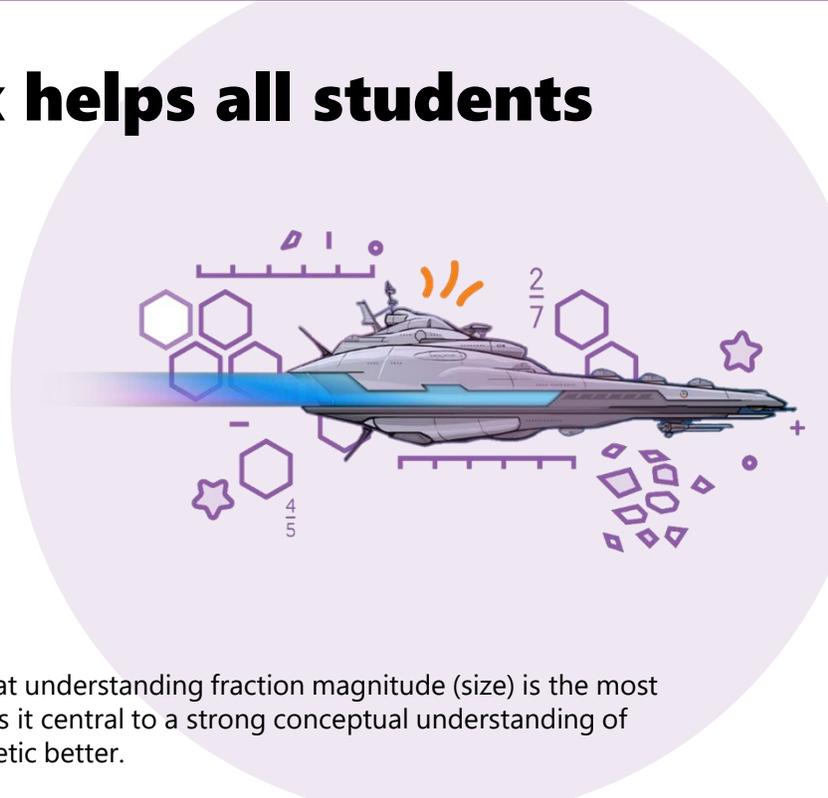
Introducing ExploreLearning Frax. Adaptive and game-based, it uses the latest research-based instructional methods to create a more effective, more fun way to learn fractions.

Fractions knowledge in grade 5 uniquely predicts student success in Algebra and beyond. Yet assessments consistently show widespread struggles with fractions from grade 3 onward. Fortunately, recent research shows a path to better outcomes.

A better way to learn fractions

Frax treats fractions as numbers first. Research shows that understanding fraction magnitude (size) is the most important building block in learning fractions. Not only is it central to a strong conceptual understanding of fractions, but it also helps students learn fraction arithmetic better.

Frax develops this through extensive use of length models and number lines that help broaden students' number sense to include fractions and allow them to compare, order, and estimate fractions. With this grounding, students can move beyond memorized procedures and tricks and come to make sense of the fractions algorithms they use.



Frax stops the fraction struggle for grades 3-5

Game-based and story-driven, the adaptive system meets students where they are and unlocks new games, challenges and rewards for their efforts.

- **Adaptive and individualized.** Every student can succeed in fractions.
- **Game-based.** Fun challenges and frequent rewards keep students coming back.
- **Research-based.** Based on the latest research on effective fractions instruction.
- **Standards-aligned.** Covers state standards and assessments for fractions in grades 3–5.
- **Real-time data.** Real-time monitoring immediately identifies when students need help.

How big a problem is fractions?

Algebra is a demonstrable gateway to later achievement in school and the workforce. Yet, a National Math Panel survey of 1,000 Algebra 1 teachers found most rated students' knowledge of fractions as "poor" and rated fractions as the second greatest barrier to students mastering algebra (second only to word problems).



Take a journey into fractions with Frax

These are the voyages of the F.S.S. Sable. Its three-year mission: to boldly use fractions to make new worlds safe in space!



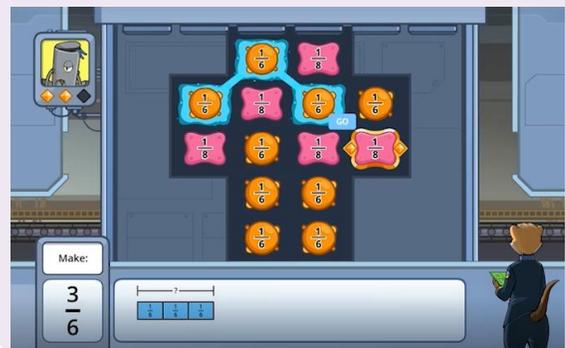
Story-driven missions

Students complete missions throughout the galaxy, exploring new worlds as they hone their fractions knowledge. Each mission – with 3-4 standards-based activities – takes about 30 minutes to complete.



Rewards for effort and progress

As students complete activities and missions, they earn tokens to spend on customizing their ship's quarters. In the Arcade, they can earn even more tokens as they practice their skills after a mission.



Fun, challenging games

Each mission features fun games that challenge students to perform a variety of tasks that build their fractions skills and understanding. Supported by brief, just-in-time instruction, they learn largely by doing.



Classroom support

Frax helps ensure all students have success. With comprehensive teacher support materials and real-time reporting, educators can quickly discover when students are struggling and how to help.