

LEARNING SCIENCE DESIGN OF

# Sapling Statistics

A Sapling Learning product



## LEARNING RESEARCH

Supported by three core concepts in education research—Sapling is founded on a wealth of education research on effective interactive pedagogy, formative assessment, and immediate feedback.

300,000k

## DATA-DRIVEN INSIGHTS

Anonymized data-mining of the behaviors of 300,000 students across a variety of disciplines was used to identify where students could be optimally directed to eBook readings during assignments. Detailed analysis of the performance of statistics students was used to identify a wealth of insights into content quality and performance.

## CO-DESIGN

Instructors and students co-designed new, novel features—Recent co-design workshops with instructors from 13 colleges identified areas to further enhance usability (such as making students more aware of upcoming assignments) and new functionality (such as providing instructors with richer tools to edit questions, and managing how much content they want to see during assignment building).



52k

## PRODUCT IMPACT

In-depth studies at three institutions identified best practices and product optimization—a mixed-method study gathered rigorous and wide-ranging data from students and instructors throughout a semester comprising more than 52,000 data points and this revealed instructor implementation and student usage patterns that were related to better course outcomes.

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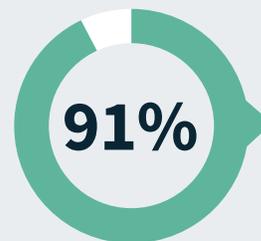
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**Features and benefits:** Diverse and thoughtful questions, hints that encourage critical thinking, targeted and immediate feedback, fully worked out solutions, student-specific analytics in gradebook, expert client success support.

100%

Of instructors think Sapling Statistics is easy to use



91% of students reported that they were more likely to do their homework using Sapling Statistics than in other courses they were taking that semester

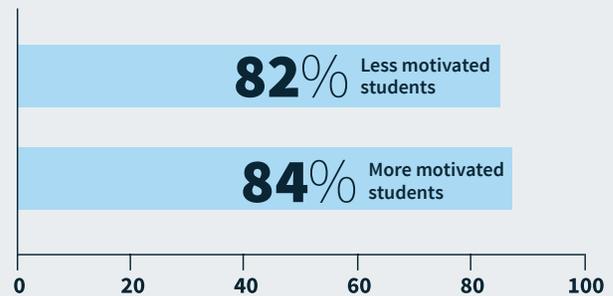


100% of instructors reported that Sapling Statistics was easy to use



89% of students reported that Sapling Statistics was easy to use

Students who report they are less motivated in Statistics complete their homework at the same rate using Sapling Statistics as students who report that they are motivated



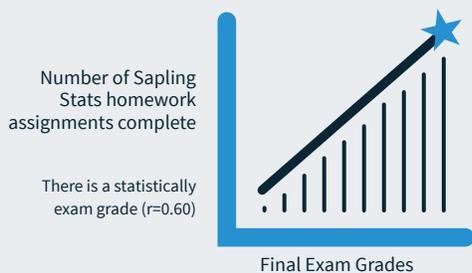
Proportion of homework assignments completed

“ The best part about Sapling Statistics is that it’s accessible from anywhere, everything is in one place and it’s so easy to use” **STUDENT**

## Sapling homework is associated with better exam grades

**.60** There is a statistically significant, positive relationship between the number of homework assignments a student completes and their final exam grade (.60)

“ It’s so easy to use! The test bank of questions was easy to navigate and adding and removing questions from the quiz was straightforward.” **INSTRUCTOR**



The feedback students receive in Sapling Statistics supports their understanding and helps prepare them for in-class assessments

89% of students believe that Sapling Statistics helps them prepare for course assessments

