



# SUCCEEDING IN CALCULUS AT UNIVERSITY OF CAPE TOWN WITH WEBASSIGN

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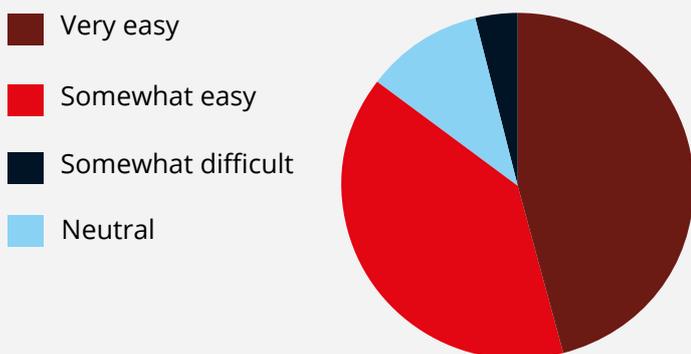


STUDENT OUTCOMES

Two hundred and seventy students using WebAssign for Calculus at the University of Cape Town responded to a survey to collect their feedback and impressions. The respondents were actively using WebAssign each week during their course for homework and assignments.

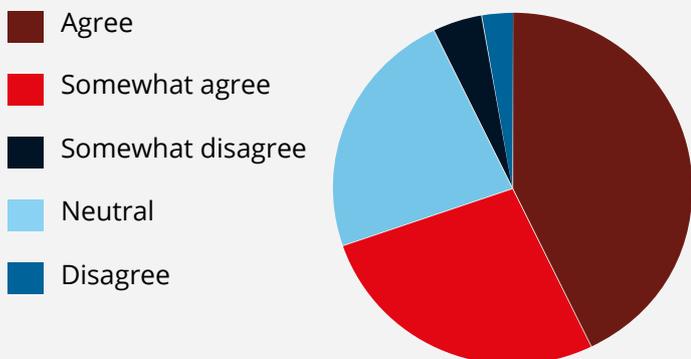
## KEY FINDINGS

### How easy was it to use WebAssign?



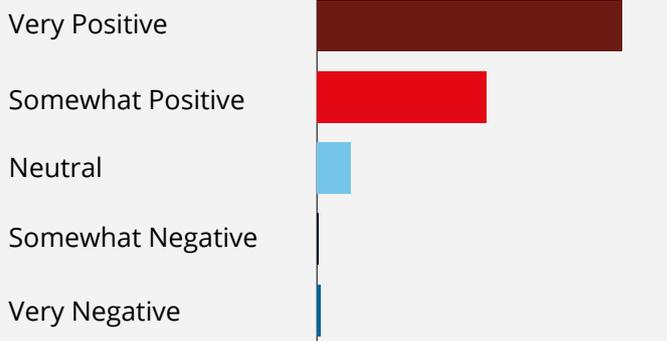
85% of students found WebAssign easy to use

Using WebAssign, I was more motivated to learn.



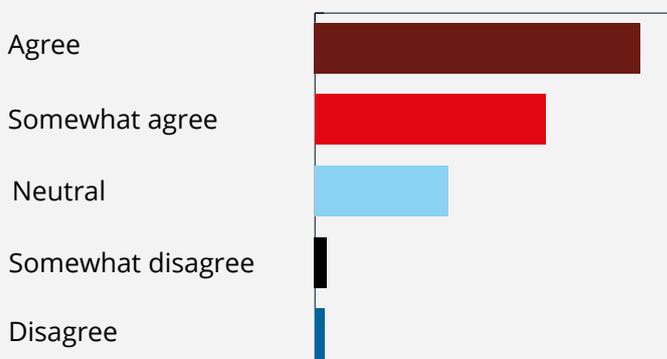
79% of students surveyed agreed that WebAssign helped them learn at their own pace and stay on track with their course. 70% felt they were more motivated to learn and 78% agreed they were better prepared for class sessions.

### How was your overall experience of using WebAssign?



92% of students had a positive or very positive experience using WebAssign

WebAssign made me better prepared for class.



## STUDENTS SPEAK OUT

*"WebAssign is really effective in helping you master concepts taught in class and it gives you time to master the ones you struggle with."*

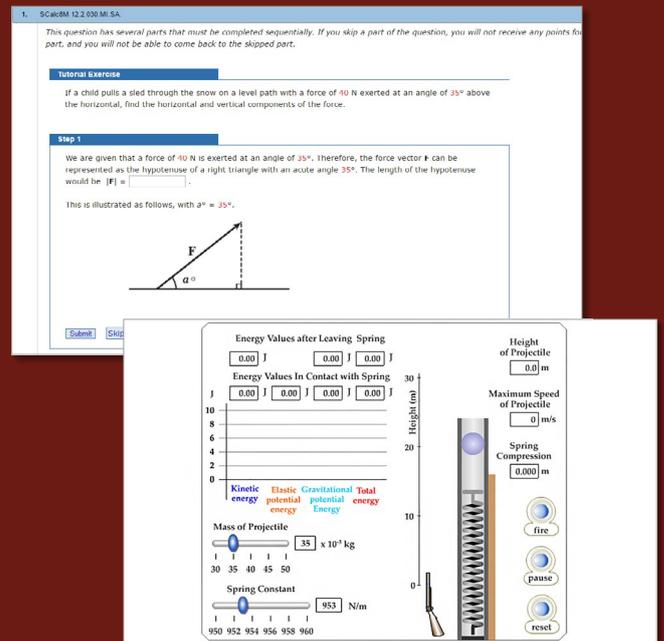
*"The videos that come with some of the questions and the Master It exercises help a lot."*

*"I like that there are a lot of extra voluntary assignments for extra practice. What's also nice is that WebAssign contains a few simple questions in between the more challenging questions which aids in helping to constantly review the basics."*

## WHAT IS WEBASSIGN?

WebAssign is a powerful digital solution designed by educators to enrich the teaching and learning experience. It enables instructors to easily create and schedule assignments, view and report on student progress and support their students with extensive tutorial and practice tools.

WebAssign is available alongside our market-leading textbooks in Mathematics, Statistics and Physics.



## INCREASING CONFIDENCE LEVELS

We asked the students to rate their overall confidence level in Mathematics prior to using WebAssign. 50% reported they were reasonably confident in the subject matter. We then asked the students at the end of their course how they felt using WebAssign had affected their level of confidence.

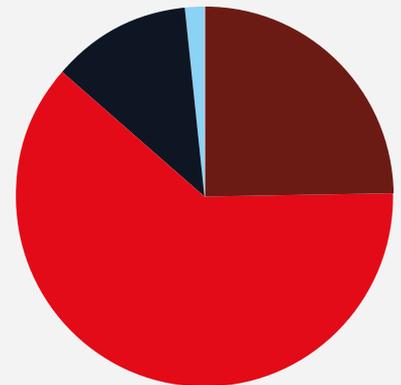
87% of students told us that WebAssign increased their confidence level in Calculus. 25% reported that WebAssign had substantially helped increase their confidence in Mathematics. 65% of respondents also agreed 'WebAssign helped me get a better grade'.

# 79%

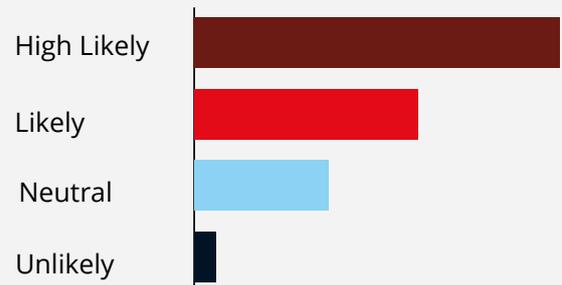
of respondents would recommend WebAssign to a friend.

### How has the use of WebAssign affected your confidence in Mathematics?

- Increased it a lot
- Increased it Somewhat
- Has not had an effect
- Decreased it



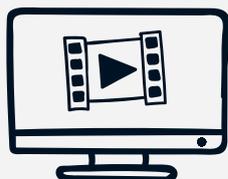
### How likely are you to recommend WebAssign to a friend?



## SUCCEEDING IN CALCULUS WITH ONLINE LEARNING SOLUTIONS

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Students found the Watch It videos clear and easy to understand and advised us that the Practice It feature helped them to learn from their mistakes and ultimately master the problem.



### WATCH IT!

Instructional videos of worked examples help students better understand and apply concepts.



### PRACTICE IT!

Allows students to practice similar problems in order to master a specific concept.



### MASTER IT!

Breaks down problems into individual steps to help students develop new skills.

The Department of Mathematics and Statistics at University of Cape Town used WebAssign to provide the content and the online study functionality to efficiently assign and grade homework for a large Calculus course for 800 students. The results from 276 students who responded to the feedback survey demonstrated that students were provided with all the resources they needed to succeed in Calculus and the students' experience of using WebAssign had been very positive.

Students found WebAssign easy to use and high percentages of students indicated how the digital features and functionality helped them take ownership of their learning – they could learn at their own pace, stay on track with their course and be better prepared for class and exams. In particular, students felt WebAssign increased their confidence levels and made them more motivated to learn.

## STUDENTS SPEAK OUT

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*"I loved that there are so many questions and they helped me understand some sections of work that I was struggling with"*

*"I really enjoyed the 'Practice another version' and 'Watch It' options on most questions"*

*"The way the solutions are explained allowed me to understand better"*

*"WebAssign is an amazing tool for developing mathematical skills"*