



# SPRIMETS

Students' Perceptions Informing and Redefining Innovative Teaching of Mathematics in Higher Education



Attitude & motivation for learning mathematics

**Perceptions of mathematics** 

disciplines.

get better at it.

assessment.

Approach to learning

independent learning.

also lead to 'surface learning'.

For a third of our students the primary motivation is to just

The lack of motivation is a barrier to students' engagement

and progress in mathematics and subsequently in applied

■ 35% of our students don't believe they can learn maths or

but also translates into other numerate disciplines.

■ 44% of students spend one hour or less per week on

25% of the students only review material before an

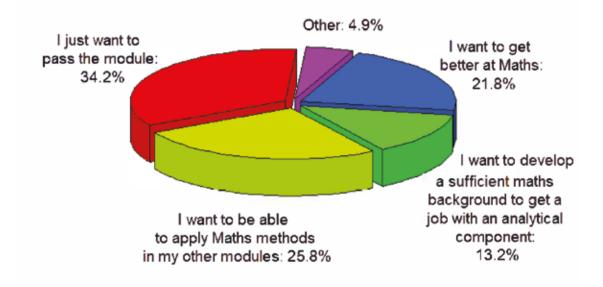
This may negatively impact exam performance and may

This impacts both students' learning and lecturers' teaching,

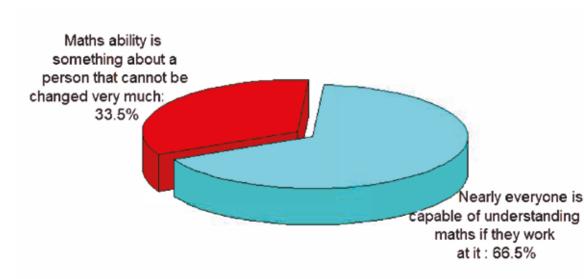
Equally, it is a great challenge for the lecturer.

pass the module; only 22% wish to get better at maths.

### Main motivation for doing well in a Maths modules (n = 325)

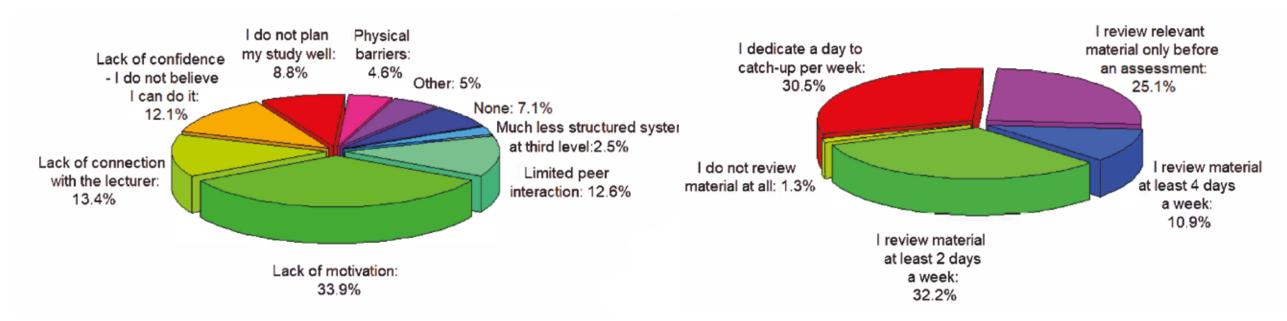


Which of the following two statements best describes your opinion of Maths? (n = 325)



### While learning Maths remotely, what is the biggest obstacle to your active participation in the module? (n = 239)

Which of the following best describes your study approach to your Maths module? (n = 239)



## Timeline

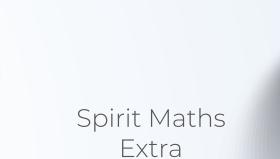






Diagnostic





KO

# Goals

Empower students to increase mathematical abilities



Provide students with

tools to succeed in mathematics

Increase student confidence in mathematics

Identify suitable learning tools

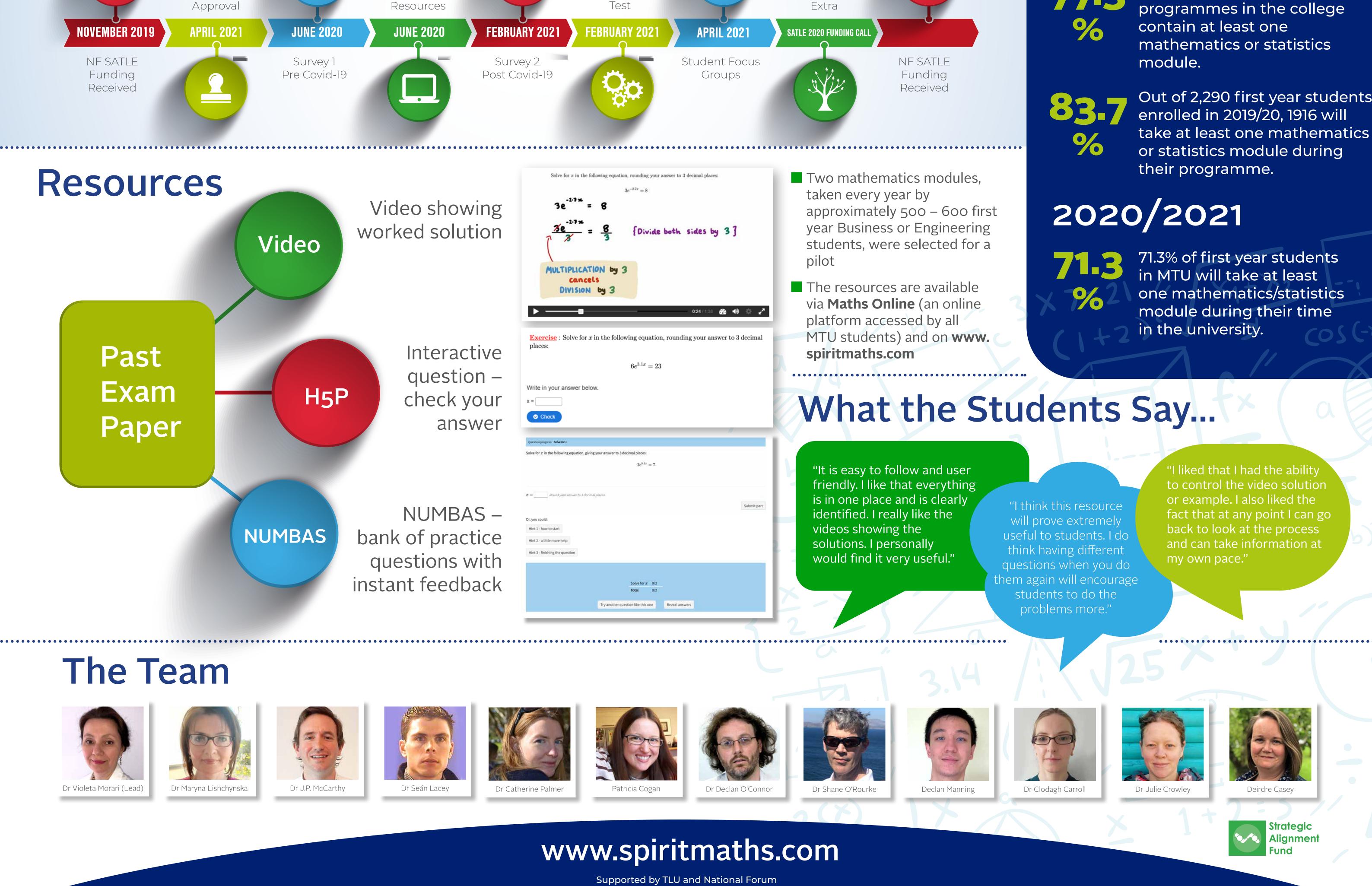
# Outputs



Student survey

Targeted digital resources – interactive exam questions, video worked solutions, online bank of interactive practice questions Online diagnostic test Targeted action plan

### 2019/2020 58 of 75 CAO intake



programmes in the college

take at least one mathematics

