Hybrid assessments

Student outcomes and experience

What are Learning Outcomes?

- A statement of threshold attainment for a pass?
- Threshold attainment for a First?
- Some mixture of these?



'Pass the module' re-imagined

- Pass-level skills
 - Core mathematical skills are mostly routine and calculation-based
 - These can (in this instance) be marked by a computer
- Higher-order skills
 - These involve more conceptual work, showing workings-out, explaining reasoning
 - Necessitates paper-based assessment

Why am I marking so many resits?

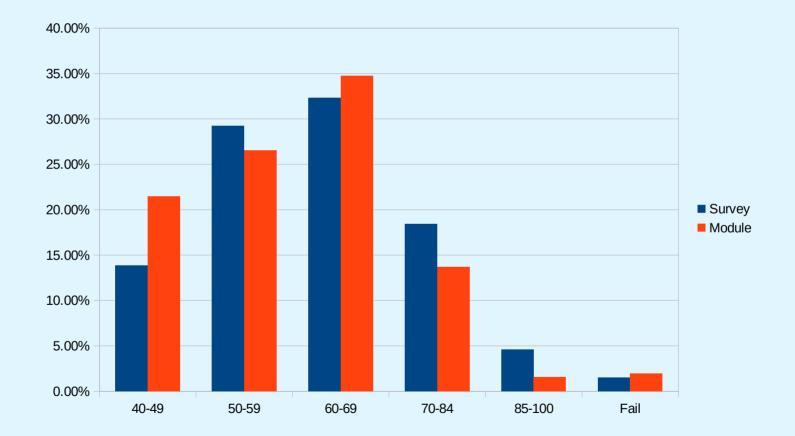
- Reduce marking burden per resit
- Reduce number of resits without sacrificing standards

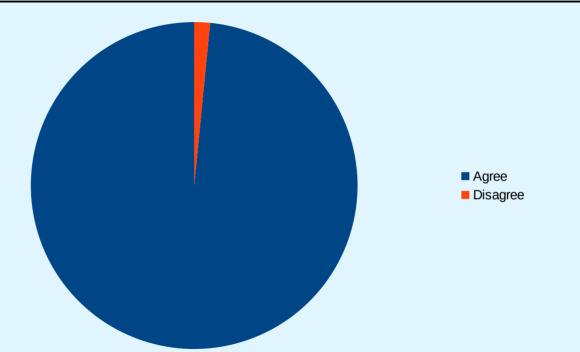


	'Pass-fail' assessment	Written assessment	
System	Dewis	Gradescope	
Attempts	1,000	1	
Marking	Automated	Manual	
Included in second attempt	Yes	No	
Marking basis	All-or-nothing	Out of 60	
Contribution to mark	Pass or fail	Subject to pass, mark between 40 and 100	
Content	Basic skills	Very challenging, conceptual material	

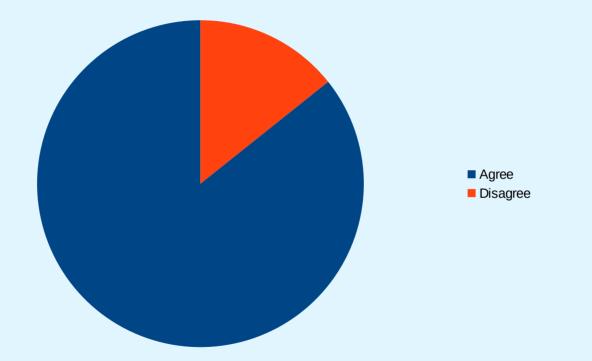
Student outcomes: assessment results

		2018 / 19	2019 / 20	2020 / 21
Calculus	AB	3.5%	3.0%	4.4%
	Fail	7%	41%	6%
	Mark	63%	44%	59%
Linear algebra	AB	3.5%	3.0%	4.4%
	Fail	12%	24%	25%
	Mark	60%	56%	57%

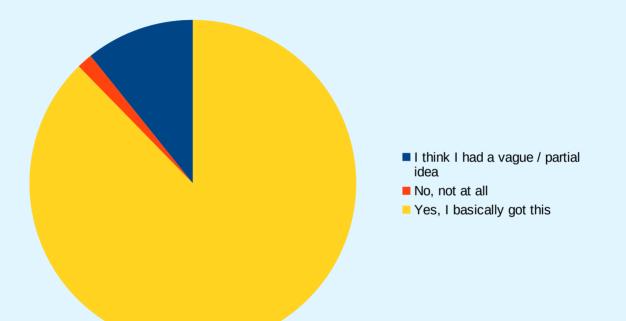




I would like to have more end-of-semester assessments that contain components where I can know that I have secured a pass mark.



Relative to the paper assessment, it was more help for consolidating my skills.



By the time you were taking the assessment, do you feel that you understood how the Dewis assessment would contribute to your overall score on the module?

- Comments principally focussed on calming of nerves and building of confidence
 - "more confident" (12), "relaxed" (5), "less stress" (9), "calm" (3), "less pressure" (2), "at ease" (2)
- Some mention of input format
 - Students did have practice opportunities during semester!
- Some comments mentioned changes to assessment strategy
 - Focussing on the other strand of the assessment, where passing was uncertain
 - Ignoring questions that were too difficult
- Some comments noting the written part was very challenging

Conclusions

- Hybrid assessment is effective in marking reduction, with gains to student experience and student perceptions of learning
- Signpost, signpost, signpost!
 - Early flagging, revision week video, follow-up email, information in assessment folder.
- Further follow-up work is needed to see whether it has had longer-term effects on student learning

Thank you all!

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