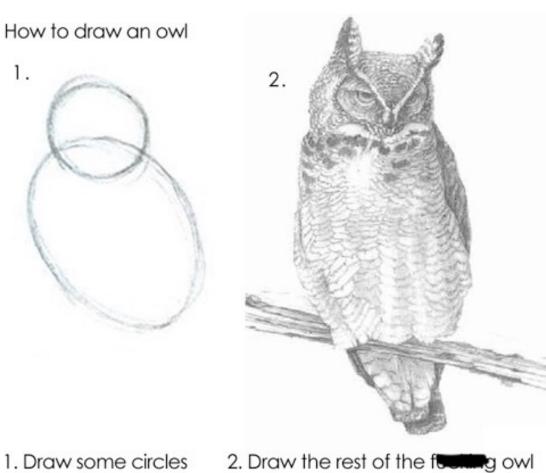
Assessment design for a time of Al

Phillip Dawson

Centre for Research in Assessment and Digital Learning (CRADLE)

Deakin University



https://knowyourmeme.com/memes/how-to-draw-an-owl



Disclaimer

- I'm a 'standards-based assessment' person
- I support AfL
- I think there are many interesting things to talk about with AI
- I receive research funding from ed tech companies
- My mum helped me contract cheat in year four

Four things to take from this presentation



The need for assessment change for a time of AI



How assessment needs to change for a time of Al



Key considerations to keep in mind as you change assessment



The necessity for structural assessment changes

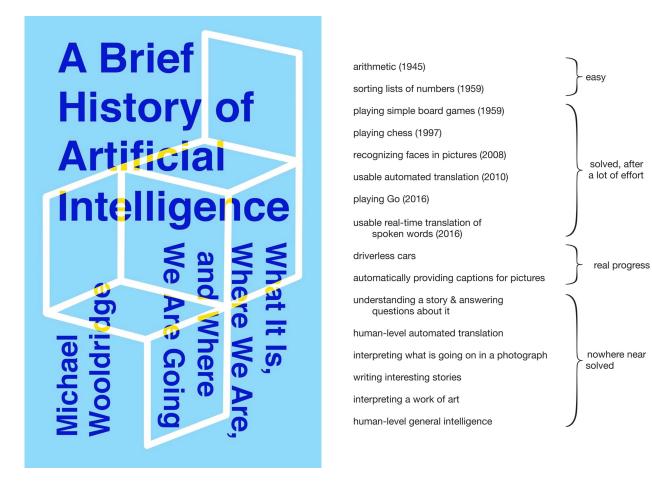
If AI can do your assessment to the pass level, and your task matters for assurance of learning, there might be a problem

- Now, and in the future, with a good prompt and iterative refinement
- Most of the time when someone thinks it can't, and they ask me, it can



"Al can't do xyz..."

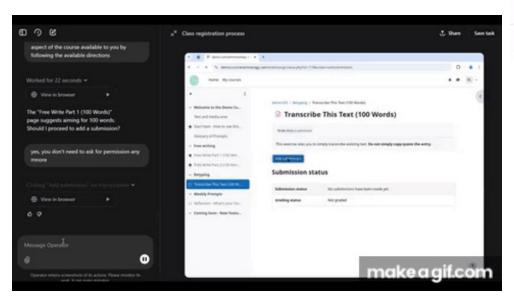
Here's where we were in 2021

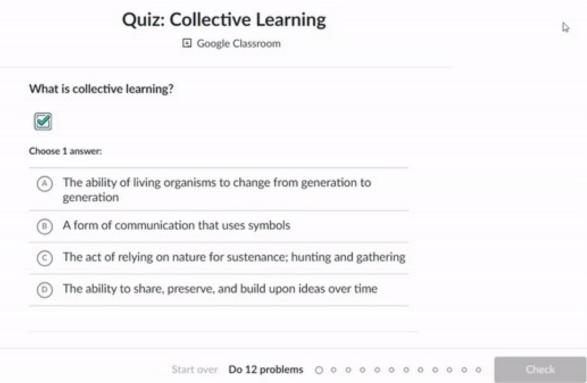


70% 63% 58% 60% 58% 50% 50% 50% 47% 40% 39% 40% 30% 25% 25% 20% 20% 18% 11% 10% 6% Explain Summarise Suggest Structure Use in Use in Use in None of I don't know research concepts a relevant my assessment assessment assessment the above article ideas thoughts after editing after editing without with Al editing I think this is acceptable I've done this

Figure 5 What students have done themselves versus what they consider acceptable

n=1041, responses weighted by demographics, collected December 2024 Student Generative AI Survey 2025. Higher Education Policy Institute (UK) https://www.hepi.ac.uk/2025/02/26/student-generative-ai-survey-2025/





QuizSolverAI: https://quizsolverai.com/

Operator Video credit: Cursive on YouTube https://www.youtube.com/watch?v=X887F7NeCR4

Four things to take from this presentation



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The necessity for structural assessment changes

Lodge, Howard, Bearman, Dawson & Associates (2023)

2 principles5 propositions

Developed with 18 experts in assessment, higher education and artificial intelligence

Lodge, J. M., Howard, S., Bearman, M., Dawson, P, & Associates (2023). *Assessment reform for the age of Artificial Intelligence*. Tertiary Education Quality and Standards Agency.



bit.ly/teqsaAl

(or Google TEQSA and the document name)





Two guiding principles

Guiding Principle 1

Assessment and learning experiences equip students to participate ethically and actively in a society where AI is ubiquitous

Guiding Principle 2

Forming trustworthy judgements about student learning in a time of AI requires multiple, inclusive and contextualised approaches to assessment

Five propositions: Assessment should emphasise...

- 1. appropriate, authentic engagement with AI
- 2. a systemic approach to program assessment aligned with disciplines/ qualifications
- 3. the process of learning
- 4. opportunities for students to work appropriately with each other and AI
- security at meaningful points across a program to inform decisions about progression and completion



Addendum: three thoughts since talking with people about the document



We don't mention cheating, but it's not a useful framing



We also don't mention validity, but it underpins the whole thing



We can't substitute all our assessments of disciplinary outcomes with assessments of Al use/critique outcomes

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"many of the dilemmas we face are not about assessment per se but are at heart 'debates about what should be assessed'."

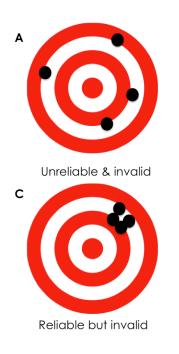
(McDowell, 2010, citing Wiliam 2007)

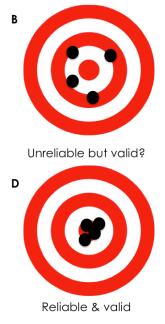
McDowell, L. 2010. "Challenging Assessment?" Assessment & Evaluation in Higher Education 35 (3): 263–264.

Wiliam, D. 2007. "Balancing Dilemmas: Traditional Theories and New Applications." In Balancing Dilemmas in

Assessment and Learning in Contemporary Education (pp. 267–281). Routledge.

Validity matters more than cheating





From a validity perspective, does it matter if a student uses AI in this task?

ASSESSMENT & EVALUATION IN HIGHER EDUCATION https://doi.org/10.1080/02602938.2024.2386662



3 OPEN ACCESS



Validity matters more than cheating

Phillip Dawson^a (ii), Margaret Bearman^a (iii), Mollie Dollinger^{a,b} (iii) and David Boud^{a,c,d} (iii)

^aCentre for Research in Assessment and Digital Learning (CRADLE), Deakin University, Melbourne, Australia; ^bFaculty of Health Sciences, Curtin University, Perth, Australia; ^cFaculty of Arts and Social Sciences, University of Technology Sydney, Sydney, Australia; ^dWork and Learning Research Centre, Middlesex University, London, UK

Image: https://learningspy.co.uk/assessment/when-assessment-fails/#post/0

The Enabling Power of Assessment 7
Series Editor: Claire Wyatt-Smith

Margaret Bearman · Phillip Dawson Rola Ajjawi · Joanna Tai David Boud *Editors*

Re-imagining University Assessment in a Digital World

Future-authentic assessment

"assessment that faithfully represents not just the current realities of the discipline in practice, but the likely future realities of that discipline"





(Reverse) Scaffolding

Scaffolding: allow use of genAl to support students for outcomes they are developing

Reverse scaffolding: allow use of genAl for outcomes students have sufficiently mastered

Al tools for production don't respect the Zone of Proximal Development



Margaret Bearman · Phillip Dawson Rola Ajjawi · Joanna Tai David Boud *Editors*

Re-imagining University Assessment in a Digital World

Cognitive offloading

Evaluative judgement



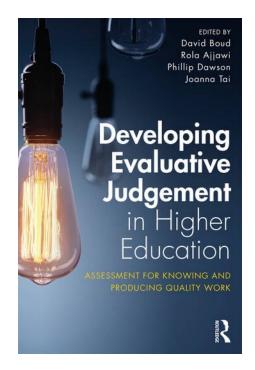
Judgements about AI products



Judgements of AI processes



Al judging our work



Bearman, M., Tai, J., Dawson, P., Boud, D., & Ajjawi, R. Developing evaluative judgement for a time of generative artificial intelligence. *Assessment & Evaluation in Higher Education*, 1-13. https://doi.org/10.1080/02602938.2024.2335321

Those 7 concepts again

Assessment matters, but so does what is assessed (does it need to change in a time of AI?)

Validity matters more than cheating (is AI panic more of a threat to validity than AI itself?)

Future-authentic assessment (prepare for their future, not our past)

Reverse scaffolding (use AI once you can do it yourself)

Zone of Proximal Development (tools for production vs tools for learning)

Cognitive offloading (extraneous vs intrinsic)

Evaluative judgement (but it can't be the only thing)

Four things to take from this presentation



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The necessity for structural assessment changes

Don't just tell students what to do

ASSESSMENT & EVALUATION IN HIGHER EDUCATION https://doi.org/10.1080/02602938.2025.2456207







'Where's the line? It's an absurd line': towards a framework for acceptable uses of Al in assessment

Thomas Corbin^a (D), Phillip Dawson^b (D), Kelli Nicola-Richmond^b (D) and Helen Partridge^b (D)

^aCentre for Research in Assessment and Digital Learning (CRADLE), Deakin University, Australia; ^bDeakin University, Australia;

ASSESSMENT & EVALUATION IN HIGHER EDUCATION https://doi.org/10.1080/02602938.2025.2503964







Talk is cheap: why structural assessment changes are needed for a time of GenAl

Thomas Corbin^a (b), Phillip Dawson^a (b) and Danny Liu^b (b)

^aCentre for Research in Assessment and Digital Learning (CRADLE), Deakin University, Melbourne, Australia; ^bDVC Education Portfolio, The University of Sydney, Sydney, Australia

Discursive: addressing AI in assessment through the instructions we give to students, e.g. "you can use AI for editing but not writing"

Structural: addressing AI in assessment through changes in the task that are unavoidable, e.g. "we will have a conversation with you about your work"





If you aren't supervising, you can't be sure how Al was/wasn't used

So don't set restrictions that can't be enforced

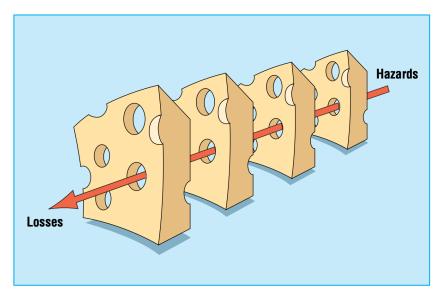
It just hurts validity

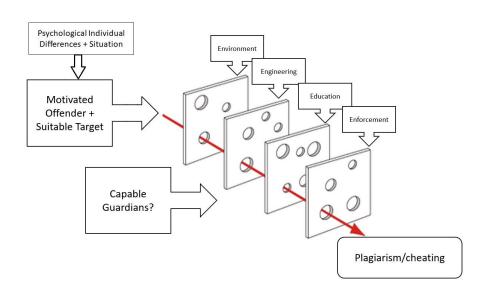
Secure some tasks

Accept the others will see significant AI use

There is no such thing as an Al-proof assessment.

Where it matters that students don't use AI, we need multiple approaches.







- 1. Assessment matters, but so does what is assessed (does it need to change in a time of AI?)
- 2. Validity matters more than cheating (is Al panic more of a threat to validity than Al itself?)
- 3. Future-authentic assessment (prepare for their future, not our past)
- **4.** Reverse scaffolding (use Al once you can do it yourself)
- 5. Zone of Proximal Development (tools for production vs tools for learning)

- 6. Cognitive offloading (extraneous vs intrinsic)
- **7. Evaluative judgement** (but it can't be the only thing)
- 8. Make structural not discursive changes (no bogus rules)
- 9. No such thing as Al-proof assessment (beware of anybody who says they have one)
- 10. Swiss Cheese,
 programmatic (layers of
 imperfect assessments tell
 us more than one good
 one)

Four things to take from this presentation



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How assessment needs to change for a time of Al



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