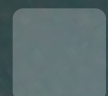


GenAI Opportunities

Improving the student experience



Agenda

Sam Hickman

Rethinking Assignments: How Can We Prepare
Students for Generative AI in the Workforce?

Part 1

Bronson Hill

GenAI Assessment modes:
Saving assessment integrity

Part 2

Jailbreaking “Seven practical strategies...”

Alternate assessment modes

Annika Rasmussen

Integrating GenAI skills into teaching

Part 3

Q&A

Part 4



Rethinking Assignments: How Can We Prepare Students for Generative AI in the Workforce?

Telling Students What They "Can and Cannot" Do with AI Limits Their Preparedness



of Global Knowledge
Workers use AI at work



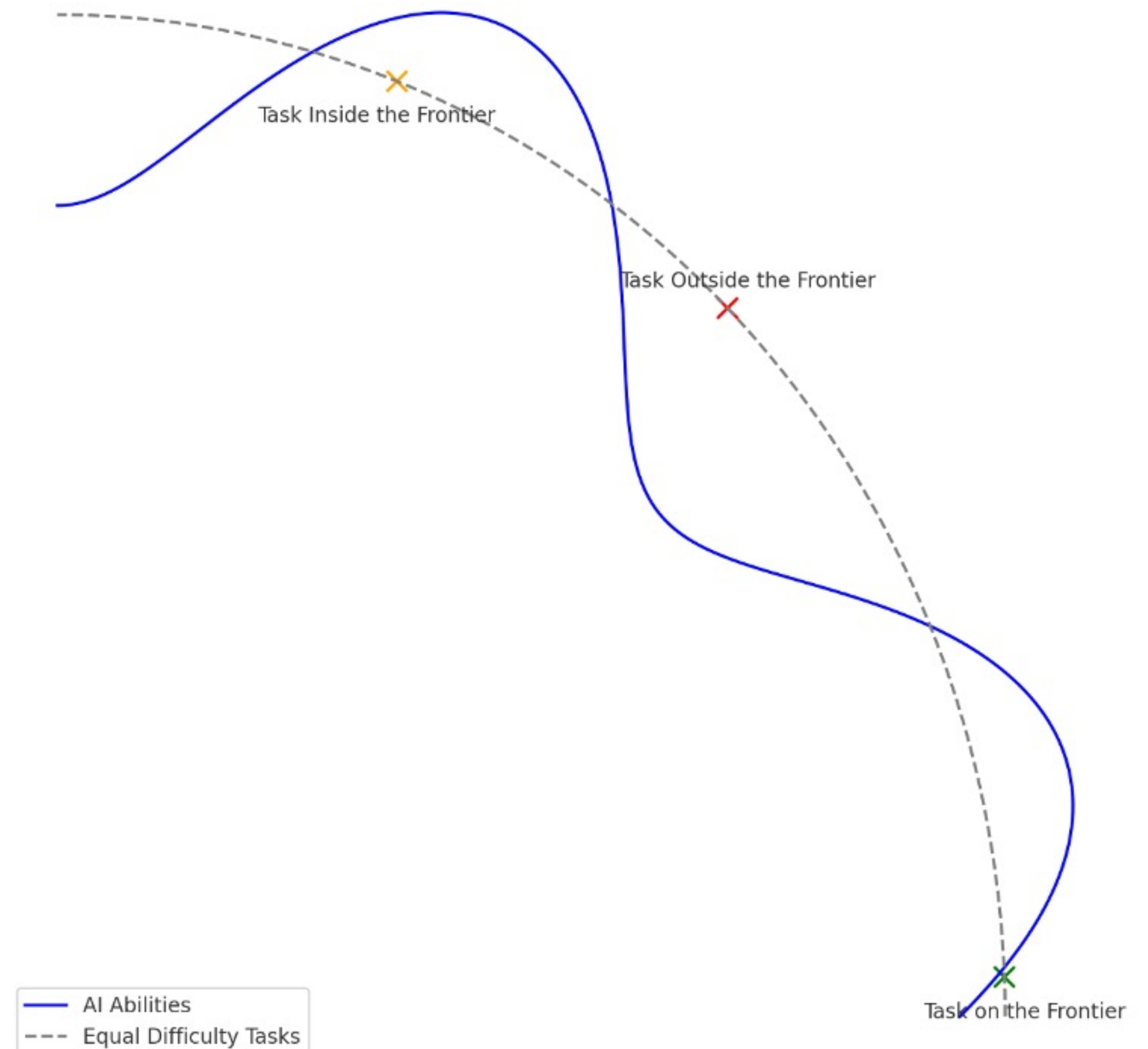
AI is a Brilliant, but Imperfect Tool

Consultants using AI finished tasks 25% faster, and their supervisors perceived the quality of the work to be 40% improved.

For tasks outside the frontier, consultants using AI were 19% less likely to produce correct solutions compared to those without AI. (Dell'Acqua et al., 2023)

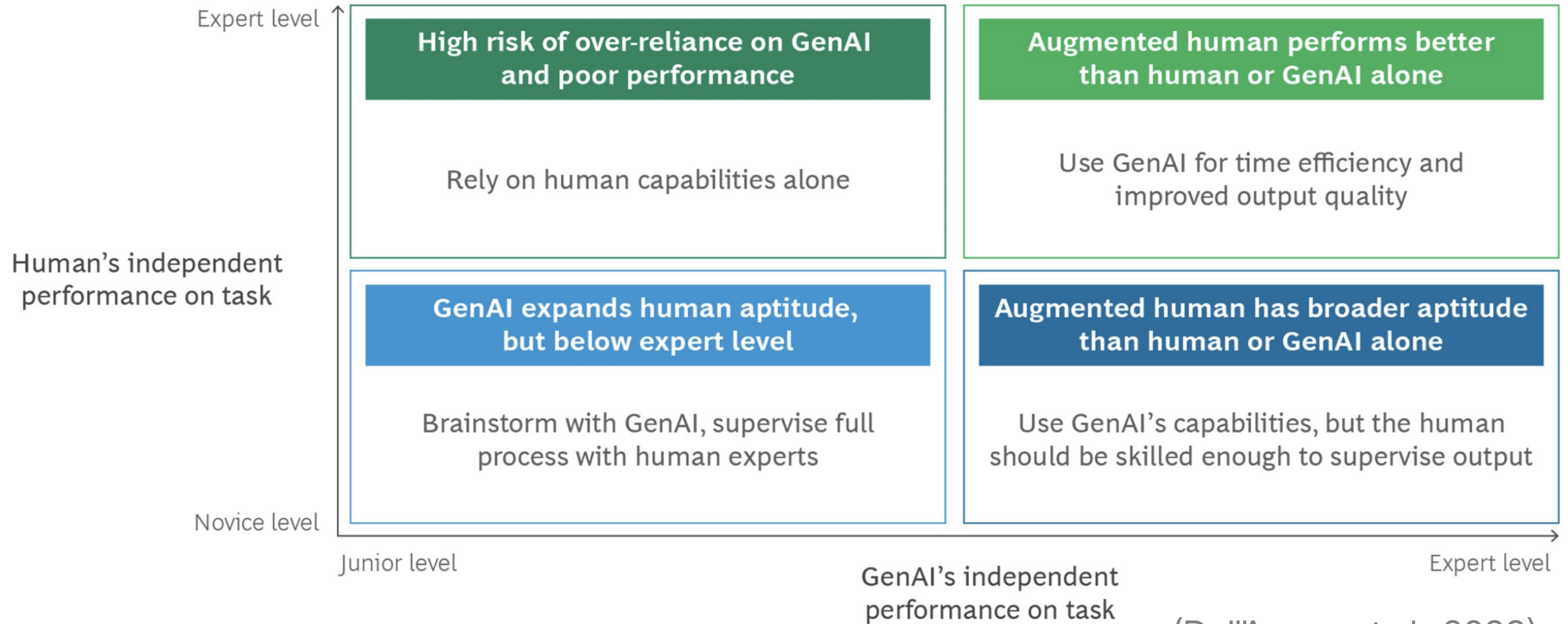
Figure 1: The Jagged AI Frontier

Jagged Frontier of AI Capabilities



Notes: This figure displays the AI frontier as jagged. Tasks with the same perceived difficulty may be on one side or the other of the frontier. ChatGPT produced this image starting from the authors' prompts.

When and How to Pair Humans and GenAI



(Dell'Acqua et al., 2023)

How do we Prepare Students for Generative AI in the Workforce?

The University of Melbourne should design assessments that integrate AI, including a mix of tasks where AI can be beneficial and others where relying solely on it will lead to suboptimal outcomes.

This approach will encourage students to critically evaluate AI outputs and collaborate with AI as a problem-solving partner, preparing them to use AI effectively in their future careers.



Compliments to this approach

How do we ensure learning is still occurring?

How do we ensure students know how to use AI?



GenAI Assessment Modes: Saving Assessment Integrity



Limitations of assessment design strategies

*Jailbreaking "Seven practical
strategies for improving assessment
design and integrity"*

Seven practical strategies for improving assessment design and integrity

While there are various strategies to improve assessment design in your subject, we focus on seven key strategies below. While we provide examples of how to implement these strategies, how suitable a particular strategy is will depend on your teaching context, including the nature of your subject, year level of students and class size, among other considerations. We also acknowledge that redesigning assessments is not without its own challenges, especially in relation to workload and resourcing.



1. Shift the emphasis from assessing product to assessing process



2. Incorporate tasks that ask students to demonstrate evaluative judgement



3. Design nested or staged assessments



4. Diversify assessment formats



5. Incorporate more authentic, context-specific, or personal assignments



6. Incorporate more in-class and group assignments



7. Incorporate oral interviews to test understanding or application of knowledge

Practical Strategy 1:

Shift the emphasis from assessing product to assessing process

“Self-reflection on learning in the subject (or learning journal)”



Practical Strategy 2:

Incorporate tasks that ask students to demonstrate evaluative judgement

“This [strategy] may include students demonstrating how they have drawn on feedback to improve a draft, or explaining how they would apply the knowledge to a future assessment task in the subject, or in their course more broadly.”

What can I help with?

Message ChatGPT

- Create image
- Make a plan
- Get advice
- Brainstorm
- More

Seven practical strategies for improving assessment design and integrity

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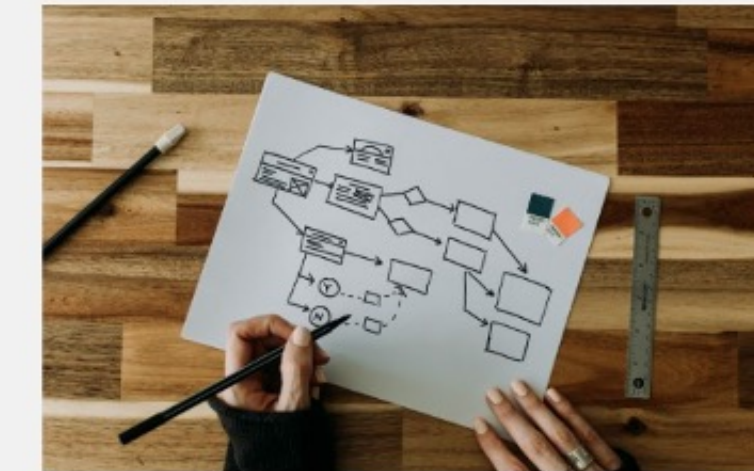
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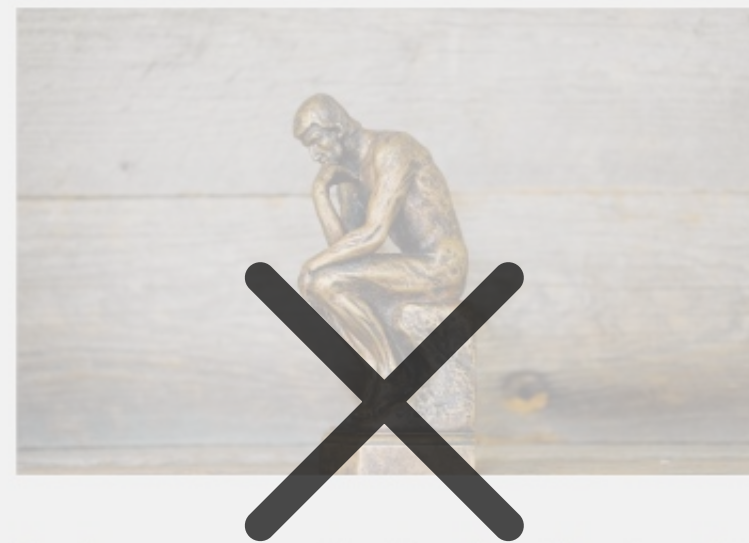
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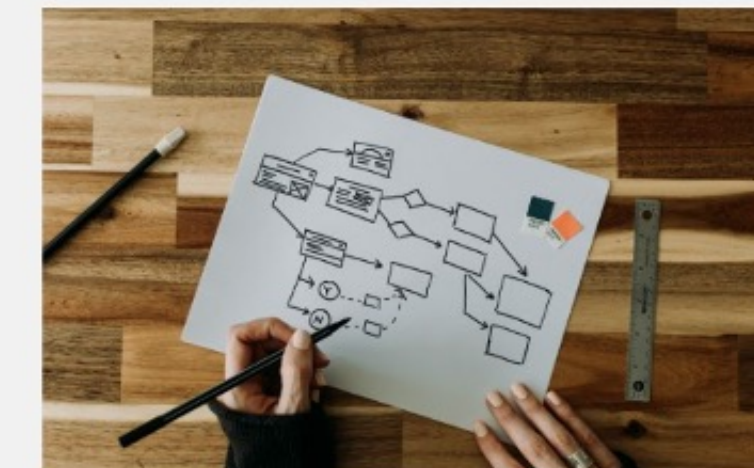
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Practical Strategy 3:

Design nested or staged assessments

*“This strategy can be designed to make it more difficult for students to complete using generative AI (e.g., by requiring group work and **reflections** on specific individual contributions).”*

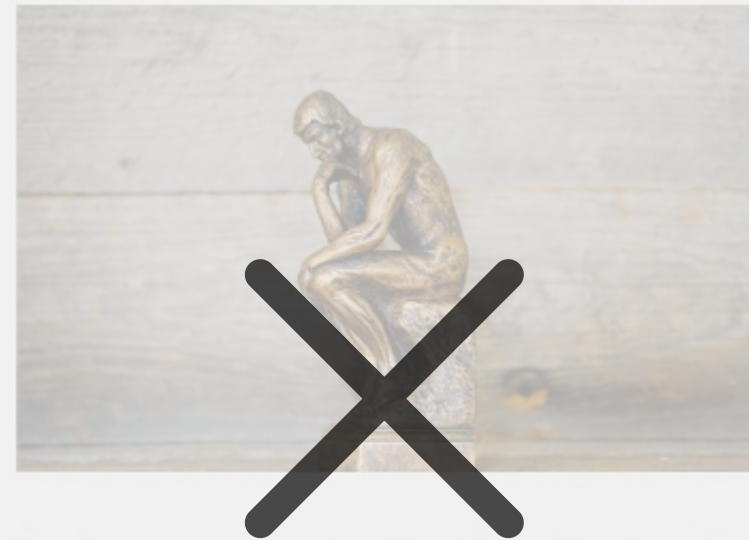


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Practical Strategy 4:

Diversify assessment formats

“Examples of different forms of assessment outputs include videos, blogs, vlogs, podcasts and animations.”



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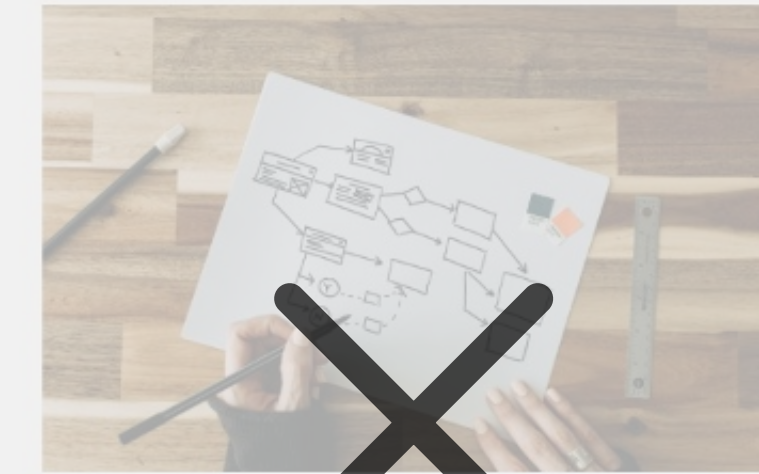
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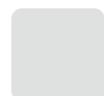


6. Incorporate more in-class and group assignments



7. Incorporate oral interviews to test understanding or application of knowledge

Text based assessments are at high risk of inauthenticity

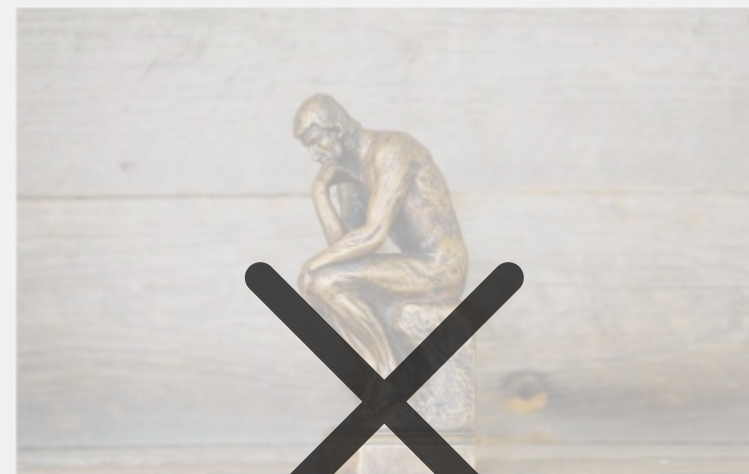


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Practical Strategy 7:

Incorporate oral interviews to test understanding or application of knowledge

Effective

But... resource intensive, and students' performance may be reduced by the stress of in-person oral assessments

A solution to assessment integrity

AI voice interview assessments

Demonstration:
GenAI-enabled Oral assessment

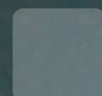
Practical Strategy:

AI oral assessment

1. Student's complete essay, project or other assessment
2. A secondary component, an **AI Oral Conversation**, is then completed by the student
3. A transcript of the AI Interview is made available for marking, in addition to the assessment



Demonstration: AI Oral Conversation





Integrating GenAI skills in teaching



Where to integrate GenAI skills teaching

Most faculties have their own version of a mandatory first-year subject designed to ensure that students have core skills and knowledge going into their degree

Arts: *ARTS10002 Arts Discovery*

Science: *SCIE10005 Today's Science Tomorrow's World*

Commerce: *CMCE10001 Sustainable Commerce*

Biomed: *BIOM10001 Discovering Biomedicine*

Etc.

What to include

Highlight #1

Look at specific assessment types common to that faculty's courses. Show examples of how GenAI can be used acceptably to assist students in those assessments, and provide guidance on unacceptable use.

Highlight #2

Give specific walkthroughs of key skills:

- Practice creating prompts
- Gamification & personalisation
- Small tasks/assignments such as building a socratic tutor for a class

What to include

Highlight #3

This must go hand-in-hand with increasing faculty understanding of GenAI, and instructors using GenAI themselves. Teaching faculty are in a unique position to teach students to think critically about using AI tools in class, and can bring expert perspectives on how to use GenAI tools beneficially in their discipline.

Other highlights

Academic Integrity

- Specific guides about University Policy - this is a major point of confusion

How GenAI works

- Explain how GenAI works on a very basic, non-technical level, and clear up common misunderstandings.

Highlighting available resources

- A chance to direct students to the new GenAI skills module that Academic Skills is developing.

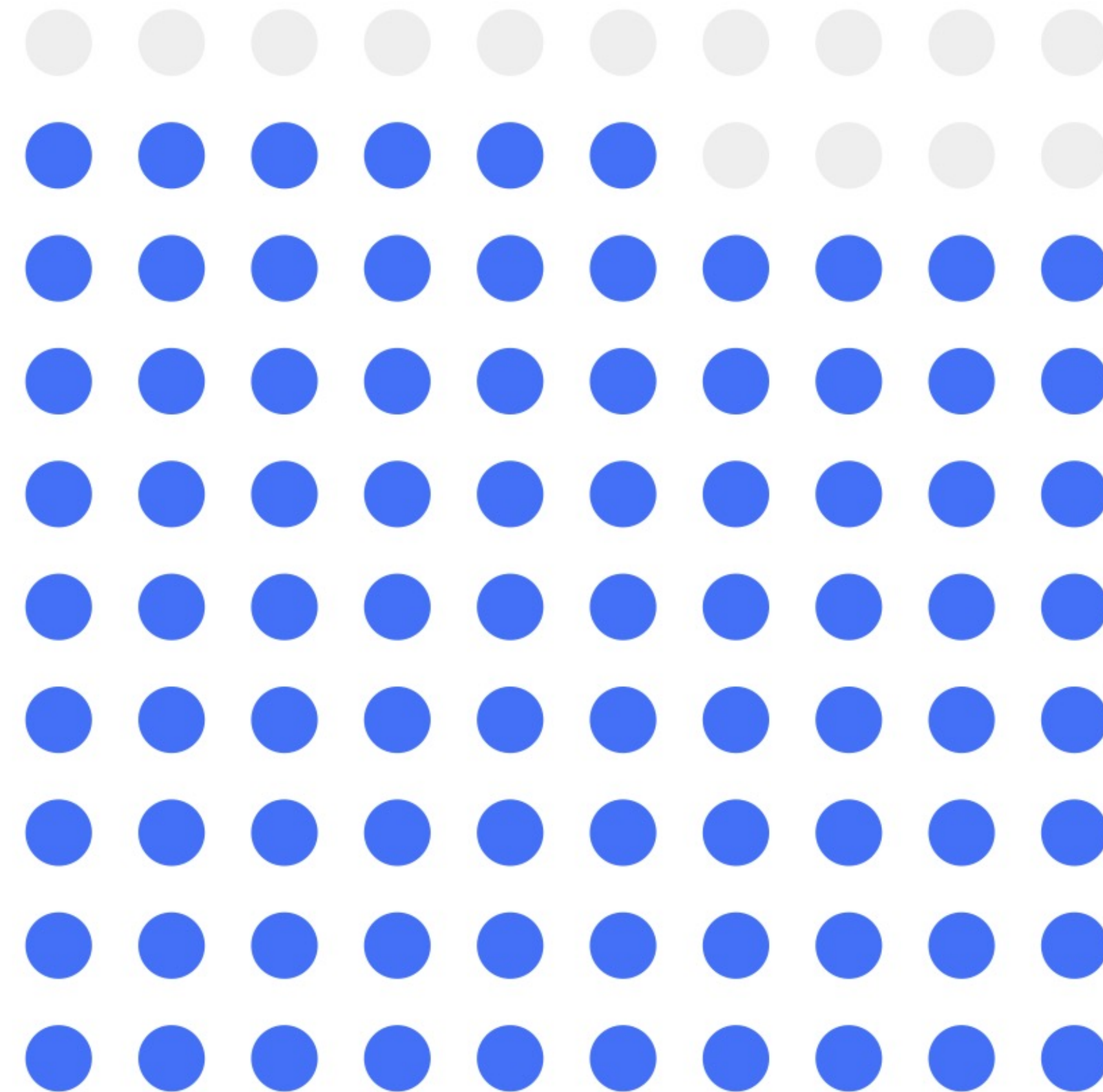


Benefits of practical experience

- Give students the opportunity to learn GenAI methods that are more beneficial for their learning
 - These methods often require a little more knowledge and effort
- Show how GenAI can be practically applied in studies

86%

of students claim to use AI in their studies



Source: Digital Education Council Global AI Student Survey 2024

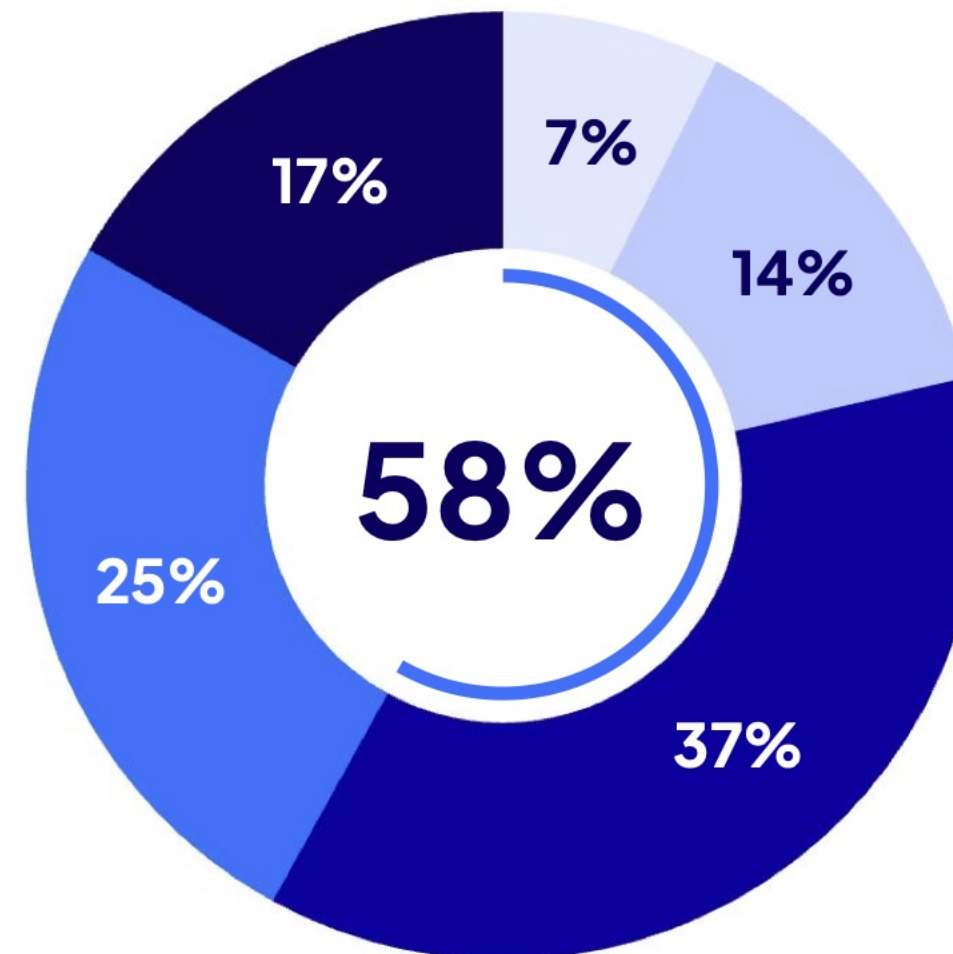
Benefits of practical experience

- Level the playing field.
- Increase students' use of GenAI in ways that benefit learning
- Give everyone equal opportunity to benefit from GenAI in their education.

Student AI knowledge and skills

Question: To what extent do you agree or disagree with the following statement:

- I have sufficient AI knowledge and skills

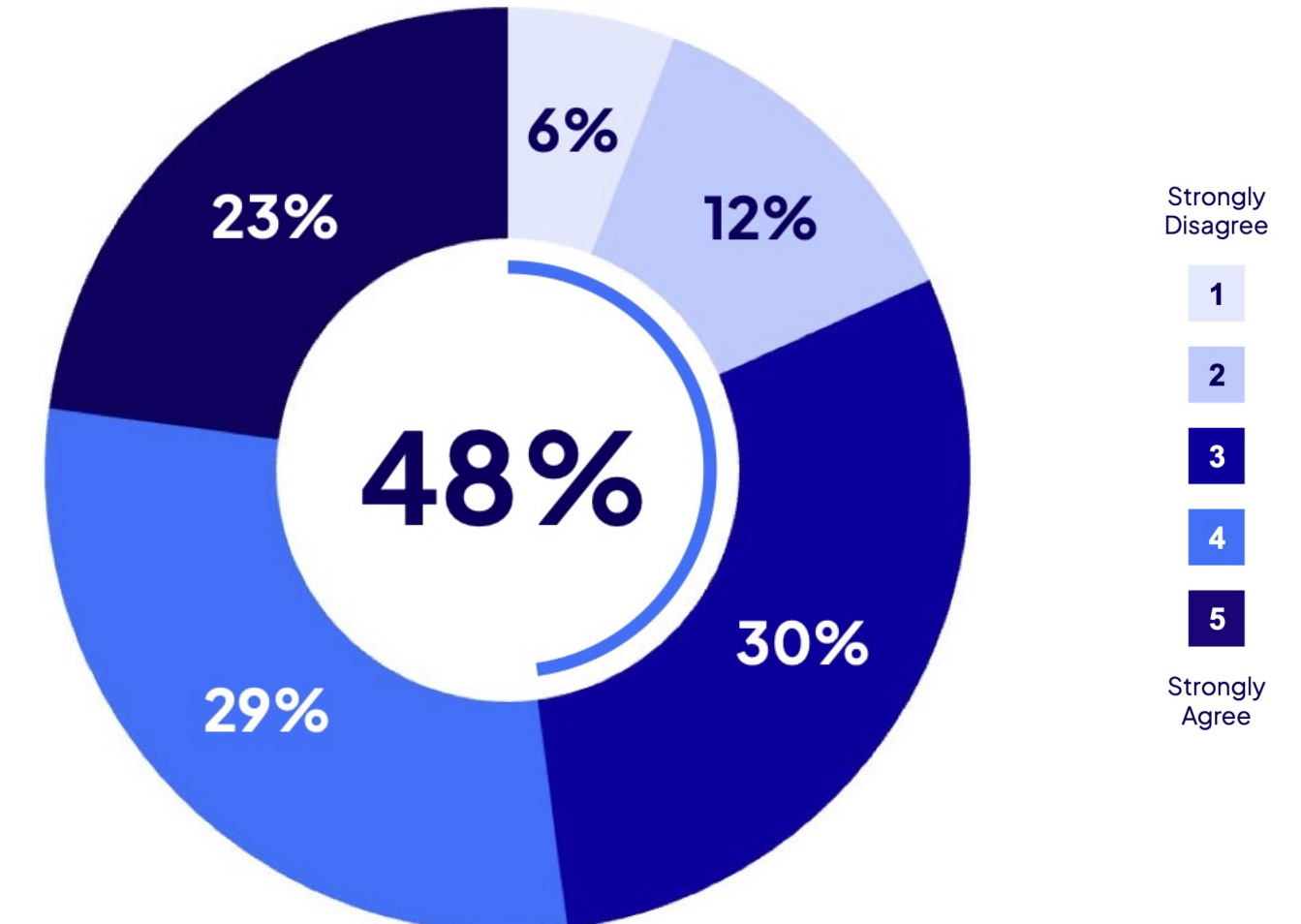


58% of students feel that they do not have sufficient AI knowledge and skills

Student AI workplace readiness

Question: To what extent do you agree or disagree with the following statement:

- I feel prepared for a future workforce that heavily utilises AI



48% of students do not feel adequately prepared for an AI-enabled workplace

Source: Digital Education Council Global AI Student Survey 2024

Q&A

