

AI & Authentic Assessment in a Digital Era

CONFERENCE PACK

July 2026

Session 9

Utilising Artificial Intelligence to Take Students from Users to Learners

[Watch the session](#) | [View the session slides](#)

Have you got examples of the sorts of prompts you gave your students?

For Calculus for Business (Social Science students) three examples are below:

1. Course content – When should we use Integration by substitution and when should we use integration by parts
2. Mathematical extension – Explain how if we know the intervals when a function is increasing or decreasing and the critical points we can plot the function
3. Real world applications – Explain the business sense in offering a rebate. #

For Differential Equations & Linear Algebra (STEM students) three examples are below:

1. Course content – Provide an example of a differential equation which looks like a first order near separable equation but actually is not
2. Mathematical Extension – What is roughly the algorithm run time for finding the inverse of a matrix using row operations. Is this the best algorithm to use?
3. Real world applications – Provide an example of a real world application which is a second order homogenous ODE where the solution is given by the complex case.

The wording of the prompts took sometime to get correct as changing the wording slightly improved the output.

When designing the prompts I tried to give a variety and pick the type of prompt for each topic. Each topic naturally suited itself to each different type of prompt. When discussing applications I focussed more on the mathematical extensions and real world applications

Do you get them to rate each others prompts at all?

I have not done this yet. It would be an interesting exercise to do.

One thing I noticed from the survey I conducted is that when students were using AI on their own it was mainly at the User level (asking a closed question).

What would be a good class exercise would be to give the students a user level prompt and get them to improve it so that it becomes Learner level.



Keep in touch

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