Current Online Assessment systems used in Singapore universities:

1. NTU – Blackboard
2. SMU – Blackboard
3. SIM University – IVLE (changing to Blackboard?)
4. NUS – IVLE
Common Assessment flaws of Blackboard and IVLE:

1. String–matching of answers
2. Many question types, not enough depth
3. Lacks Maths & Science assessment tools
1. String-matching of answers

5 + 5 = 10 ☑

5 + 5 = 7 + 3 ✗

5 + 5 = 2 × 5 ✗
2. Many question types, not enough depth

- MP3 player = Blackboard
- Angelina Jolie lips = New question type added to Blackboard in the latest version.
Sometimes having too many question types, with no defined objective for each question type, results in an awkward, inefficient system.

- Do I need all these question types?
- How many of them do I actually use regularly?
- Aren’t they just simply disguised, alternate forms of Basic Questioning? E.g. Fill in the blanks = Short answer question?
3. Lacks Maths & Science assessment tools

Courses in need for this tool:

- Engineering
  - Physics
- Chemistry
- Mathematics
- Economics
- Statistics
- Business Studies
- Computing
• Doesn’t have built-in Maths engine
Advanced Methods for Online Assessment

• Unable to **INPUT** free-form Maths & Science

\[ \text{HCl} + \text{NaOH} \rightarrow ? \] Hint: Acid + Base always gives you a salt plus water only.

This question accepts chemistry formulas and equations.

*Help | Change Entry Style*
• Unable to MARK free-form Maths & Science

Sketch the graph of the function \( y = x^2 + 4 \).
Advanced Methods for Online Assessment

- Unable to MARK concept-driven answers

**Question 9: [1 point]**

Give an example of a function \( f(x) \) which is increasing on the interval \([0, 10]\). Enter only the expression for the function, omitting "\( f(x) = \)". Click Plot to verify that your function increases.

\[
\sqrt{3}, \sin \theta, \infty, \alpha, \gamma, \text{ etc.}
\]

This question accepts numbers or formulas.

Plot | Help | Change Math Entry Mode
- Unable to set **Self-Paced Learning** tests
How to conduct Advanced Online Assessment using Blackboard:
is derived from the legendary Maple software. A web-based testing and assessment system, Maple T.A. supports complex, free-form entry and intelligent evaluation of responses, making this system ideal for any course that involves advanced testing.

It is an extension to , and is not an entirely new system. You do not need to re-adapt to a new interface.
### Advanced Methods for Online Assessment

#### Course Content Areas
- **Course Information**
  - Assignments
- **Course Documents**
  - External Links

#### Course Tools
- **Announcements**
- **Course Calendar**
- **Staff Information**
  - Maple T.A. Assignment Editor
- **Tasks**
  - Maple T.A. Question Editor
- **Discussion Boards**
  - Maple T.A. Gradebook
- **Send E-mail**

#### Course Options
- **Manage Course Menu**
- **Manage Tools**
- **Settings**
- **Recycle Course**
- **Course Copy**
  - Import Course Cartridge
  - Import Package
  - Export Course
  - Archive Course
  - Resources

#### User Management
- **List / Modify Users**
  - Enroll User
  - Remove Users from the Course
- **Batch Create Users for Course**
  - Manage Groups

#### Assessment
- **Test Manager**
  - Gradebook
- **Survey Manager**
  - Gradebook Views
- **Pool Manager**
  - Course Statistics

#### Support
- **Support**
- **Manual**
  - Contact System Administrator
Select an option and click "OK" to begin:

- Start writing a new empty question bank
- Upload and edit a question bank from your computer
- Edit a question bank from the list below
- Delete question bank from the list below

Question Bank Titles

- Sample Questions
- Demo Class Question Bank
## View Spreadsheet

<table>
<thead>
<tr>
<th>Student Name (Last, First)</th>
<th>Demo Assignment</th>
<th>asst - June 22</th>
<th>Assignment Week 2</th>
<th>Assignment 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maple T.A. Homework Assignment</td>
<td>Maple T.A. Homework Assignment</td>
<td>Maple T.A. Homework Assignment</td>
<td>Maple T.A. Homework Assignment</td>
</tr>
<tr>
<td></td>
<td>Pts Possible:</td>
<td>Pts Possible:</td>
<td>Pts Possible:</td>
<td>Pts Possible:</td>
</tr>
<tr>
<td></td>
<td>8 Weight: 0%</td>
<td>9 Weight: 0%</td>
<td>2 Weight: 0%</td>
<td>2 Weight: 0%</td>
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<tr>
<td>Krmpotic, Amanda</td>
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<tr>
<td>Mathers, Trystan</td>
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</tr>
</tbody>
</table>

3 Students
Displaying records 1 - 3

**In Progress**
- No Information
- Needs Grading
- Grading Error
Foreign Universities using MapleTA

Mathematical Association of America
http://www.maa.org/ptp/MAA-Maplesoft-PTP-July05.html

Cornell University
http://www.math.cornell.edu/~inst_tech/mapleTA_tutorial.html
http://instruct1.cit.cornell.edu/courses/mapleta/

Iowa State University
http://orion.math.iastate.edu/trig/sp/current/mapleta.html

UWEC

LSU
http://www.math.lsu.edu/courses/1022/maple/maple.htm

Stony Brook New York
http://assess.math.sunysb.edu:8080/modules/test.Test?className=Practice&testName=Practice%20part%201%20(Algebra)

Monmouth University
http://www.mapleserver.com/mapleta/classes/MONMOUTHSmithC1/

Colorado State University
http://www.mapleserver.com/mapleta/classes/UCKennedy/

University of South Carolina
http://www.math.sc.edu/~meade/142L-S04/misc/accessSpr04.pdf
Quick Demo
MapleTA Quick-Start:

Download Question Content from the Maplesoft Application Center


For more information on MapleTA:

www.i-math.com.sg