Enhancing Student Interaction and Learning with the H5P Live Engagement Moodle Plugin

Dr. Lu Zhang
School of Biological Sciences, HKU

H5P Live Engagement Tools

Real-time interaction with up to 750 learners

Integrated with Moodle as a plugin

Analytics to track learners' engagement in Moodle

Piloted in three courses across different disciplines
- Courses with class sizes ranging from 38 to 139 students
- From Faculty of Science and Faculty of Social Science

Key findings

Enhanced engagement and interaction
- 12% to 20% increase in participation from Mentimeter to H5P Live Engagement Tools
- 3 to 5 fold increase in questions asked/lecture

Improved academic performance
- Higher grades correlated with increased engagement

Large Class Size Challenge

Large classrooms present challenges to student participation

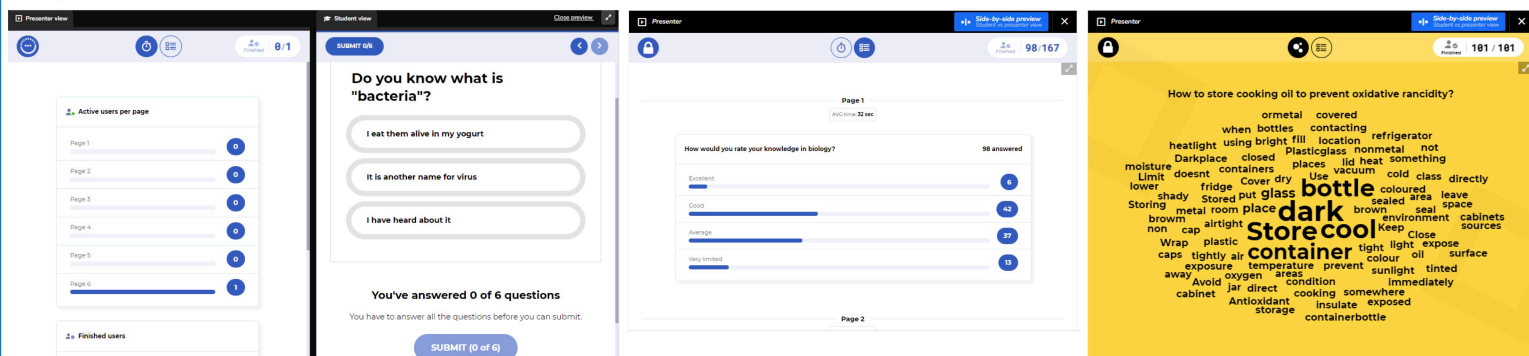## Avoids Tech Overload From Using Multiple Tools

H5P Integrates with Moodle for all-in-one live tool that improves usability and tracks student data with Moodle for regular feedback to students

H5P Live Engagement plugin

Multipoll

Word cloud

Tools for creating synchronized, anonymous activities: Polls, Multiple-choice, True/False, Open-ended questions, and Q&A sessions
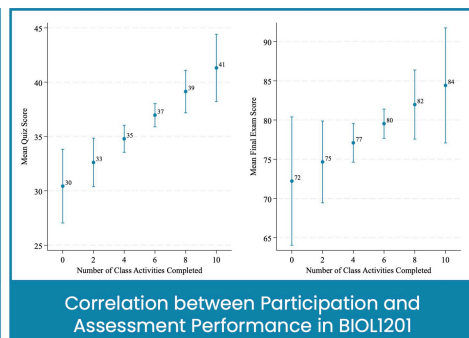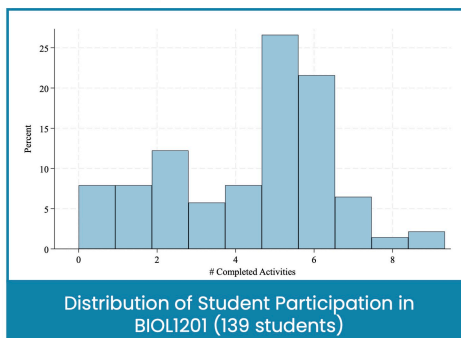
Engagement Tools in Action

Dashboard allows teachers monitor student live status in **Presenter View** while previewing questions in **Student View**.

Multipoll: A snapshot of live results of student responses

Wordcloud: Live visualization of student contributions in the Wordcloud view

Moodle analytics for Student Participation in H5P activities & Performance

- **Tracking Individual Student Engagement**: 76% students completed 3+ activities; 47% students completed 5+ activities

- **Performance Gains**: Students completing all 10 activities scored 25% higher on quiz and 16% higher on exam than those completing only 3 activities

Distribution of Student Participation in BIOL1201 (139 students)

Correlation between Participation and Assessment Performance in BIOL1201

Student feedback from surveys

- 80+% students believed H5P tools enhanced participation
- 90+% students found H5P tools effective in supporting their learning

Scan me to view demonstration of H5P Live Engagement Tools

For enquiries, please contact Dr. Lu ZHANG
✉ lzhang17@hku.hk