

Uses of Learning Catalytics[1]

Automated response system to ask questions during class
Uses: <ul style="list-style-type: none">- Gauge students' understanding of concepts in real time- Tailor and pace instruction to needs of the class- Conduct think-pair-share exercises[2]- Poll students about feelings and attitudes
Electronic seating chart
Uses: <ul style="list-style-type: none">- Record students' attendance- Learn students' names more quickly- Identify individual students who find a concept difficult and help them- Answer individual questions
Self-paced study modules
Uses: <ul style="list-style-type: none">- Allow students to make their way through longer in-class exercises step-by-step- Record answers to homework questions and provide immediate automated feedback- Enable automatic grading

References

- [1] Schell J, Lukoff B, Mazur E (2013) Increasing Student Engagement and Retention using Classroom Technologies: Classroom Response Systems and Mediated Discourse Technologies, Emerald, chapter Catalyzing Learner Engagement Using Cutting-Edge Classroom Response Systems in Higher Education. Cutting-edge Technologies in Higher Education. pp. 233-261. URL <http://mazur-www.harvard.edu/publications.php?function=display&rowid=701>.
- [2] McTighe J, Lyman FT (1988) Cueing thinking in the classroom: The promise of theory-embedded tools. Educational Leadership 45: 18-24.