

Meaningful Engagement with Classroom Response Systems

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Devices

Main devices/tools on campus are i>Clicker, TopHat, TurningPoint

- Include device purchase (if required or recommended) in the textbook adoption
 - Hard device is more reliable in the classroom
 - Battery might go dead
- Vendor is now making i>Clicker access available via an app
 - This may present issues in some classrooms due to wireless connectivity
 - Talk to the rep regarding the desired device features
- There is a Canvas integration for i>Clicker
 - Data will export to Canvas or to Excel
 - Students can re-sell clicker
- No clicker device is used for TopHat (app or web interface)

Useful Strategies

- Provide Participation points
 - In order to have a 100% participation score, students would need to answer every one point question
 - Content question = .6 of a point for wrong answers
- Build in a safety net for students when technology fails
 - Added extra questions which resulted in 10 bonus points for those who attended every session and answered all questions
- Q: Are you inflating grades?
 - 12% of students increased their grade by a 1/2 letter
 - Most were already at the top of the scale
 - Helps to cut down on issues when students know they have that bit of a bonus
- Same clicker can be used in multiple classes, but not by two different people in the same class
- Make use of the discuss and answer again technique recommended by Eric Mazur at the [Spring 2015 Interface Faculty Seminar](#)
- [Learning Catalytics](#) is another possible tool
 - Can be used in an online course (not really designed for fully online courses)
 - Can be used for drawing types of questions and statistics
- Kinds of questions?
 - Multiple choice
 - Application oriented
 - Short enough to fit on a slide

Academic Honesty

Q: Do you feel you are running into academic honesty issues?

- Policy is if they were caught then they lose both their points and the points of the person whose clicker was borrowed
 - It's difficult to police
 - Very few points are awarded via clicker questions
- TopHat: It is possible for users to answer from a distance (need not be present in the physical classroom)
 - The question choices do not have the answer text on the website
 - Students would need to text answers to other students

Student Feedback

- Request student feedback through survey:
 - What do you want me to stop doing?
 - What do you want me to start doing?
- Most students like the clicker
 - They can self-assess
 - Helps them see how they rank with the rest of the class
 - Faculty can assess student understanding

