The Tools of Engagement: iClicker Use in the Classroom

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Available at: https://works.bepress.com/christina_gunther/10/
The Tools of Engagement: iClicker use in the Classroom

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December 4, 2013
Key Features

Student Response System that allows for:

✓ Immediate feedback
✓ Dynamic interaction
✓ Student engagement
✓ Auto generated grades either individually or in aggregate
✓ Increased retention and performance
Why Use iClickers?

• Technology should serve to break barriers between the current student populations’ interest and knowledge of technology and outdated models of instruction.

• These tools are meant to be a supplement to education, rather than a replacement of face-to-face contact.

• Keeps students off Facebook!
Why use iClickers?

• Technology promotes engaged, participatory learning

• Technology results in stronger comprehension and deeper knowledge
But aren’t there free polling systems?

Yes! Poll Everywhere is free.

- Multi-formatted questions
- Students use cell phones to respond. No extra device is necessary

However:

- Cannot be used for free for retention purposes or increasing performance
- Cannot run reports on student activity, responses or auto generate grades.
- Feedback is limited.
Engaged Self Learning Assessment

• Participants voluntarily participated in a 20 question Likert scale and 3 open ended question survey

• Questions were related to the use of technology learning modalities within the classroom setting

Participants:

• Nursing students in the first professional degree program at Sacred Heart University

• N=74 undergraduate nursing students

• Sophomore, junior and senior level
School of Nursing Results

• 88% of students reported feeling energized in class when i-clickers were used.

• 75% of students indicated a desire to use i-clickers in all classes.

• A positive correlation was found ($r = 0.80$) between feeling engaged in class and the use of technology tools.
I find myself energized and learning in class if i-clickers are used.
I wish all of my courses used i-clickers.
iClicker Software/Hardware

www.iclicker.com
Faculty/Student Remotes

- **A** = Start/Stop polling
- **B** = Hide/Display graph
- **C** = Next slide
- **D** = Previous slide
- **E** = Select correct answer
- **Power**
Creating Questions

- Create questions in the iClicker Question Editor
- iClicker will recognize questions in your PPT, PDF, Word document, website and more...

Sample questions in the Question List Editor
For each individual question you may review a screen capture of the question, voting results graph, and the number of students who selected each answer.

<table>
<thead>
<tr>
<th>Choice</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tbody>
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<td>Number</td>
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<td>0</td>
<td>4</td>
<td>1</td>
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<tr>
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<td>0%</td>
<td>67%</td>
<td>17%</td>
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<td>Performance Points</td>
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Premature babies are especially likely to gain weight if stimulated by:

A. sound and music.
B. light and colors.
C. touch and massage.
D. movement and acceleration.
Sample Question

This picture is
A) Real       B) Fake
Real Time Response Data
Report Availability

**Student Voting Data** contains your individual students’ polling data and statistics, by session and by question. This report also links to your students’ **Cumulative Scores**, which provide you with a printable overview of your students’ entire performance during the term.

![Student Session Report](image-url)
Student Term Report

Course Name: Psychology 101

Total Number of Sessions: 3
Total Number of Students in Class: 2
Total Number of Available Points for Term: 3
Student Average: 1.00

NV = No votes collected
Student Average = Calculation based only on students who voted in this session.

<table>
<thead>
<tr>
<th>Student Info/Total</th>
<th>Average</th>
<th>08/26/2009</th>
<th>08/26/2009-2</th>
<th>08/26/2009-3</th>
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<td>NV</td>
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<tr>
<td>Stelzer, Tim, tstelzer Total: 1.00</td>
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How’s my teaching? Do students understand the material?

---

<table>
<thead>
<tr>
<th>Question</th>
<th>Time Started</th>
<th>Time Stopped</th>
<th>Number of Responses</th>
<th>Maximum Score</th>
<th>Average Score</th>
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Let’s Try it!
What is the capital of North Dakota?

a. Pierre

b. Saint Paul

c. Bismark

d. Salt Lake City
We often see UPS trucks delivering packages around our streets and neighborhoods. What is U.P.S. an acronym for?

a. Ultimate Postal Service

b. United Parcel Service

c. Unlimited Package Service

d. Ultimate Package Source
According to Wikipedia, what was the first ever text message sent?

a. Merry Christmas
b. Happy Birthday
c. I love you
d. Is there anybody there?
Recommendations

- Align Technology with Pedagogy
- Faculty Support and Training
- Student Training
- Affordance of Technology – make it intuitive
- Pilot, Pilot, Pilot
- Evaluate Outcome Measures Consistently
- Stick with it. Eventually, it will become the norm. Change takes time.