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Classroom Clickers – Invigorating the Classroom Experience

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Classroom Clickers – Invigorating the Classroom Experience

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Dr. Veronica Cote, Aviation
Dr. Shannon Donovan, Accounting and Finance
Dr. Thanh Nguyen, Secondary Ed
Basic Components

• Clickers
• TurningPoint (basically PowerPoint)
• Question – some form of Multiple Choice
• Response Counter
• Timely Tabulated results
• Timers
Useful for…

• New Content
• Review
• Taking the pulse of the group
• Testing
• Group Demographics
• Anonymous responses – and responses from all students!
• Pre/post work
Why use Clickers?

Faculty:
• Rapid, any-time assessment method;
• Facilitate discussion and cooperative learning;
• Take attendance;
• Assess opinions & perceptions;
• Perform mid-course evaluations.
Why use Clickers?

**Students:**
- Help students monitor their own learning;
- Gives class and individuals a better sense of their strengths and deficiencies;
- Reassurance that they are not alone in their opinions or knowledge level;
- Engaging all students by anonymous responses;
- Credit for attending class;
- Help develop critical thinking instead of rote memorization.
Clickers and Guided Inquiry Learning

- GIL: student active, research approach to learning sweeping STEM education;
- Works for small and large classes with increased retention, student satisfaction, reduced failure rates;
- When clickers are integrated with GIL enhanced benefits observed for students: in C-range, also with poor math skills
- Benefits carry forward to other courses;
- POGIL (Process Oriented Guided Inquiry Learning) is best developed method with growing course resources in STEM disciplines.
Chemistry Clicker Project

• Monitor student progress in specific introductory chemistry courses;
• Assess progressive development of critical thinking skills related to specific topics that are critical for success in upper level chemistry and biology courses
• Questions developed for specific topics: structure and hybridization, resonance, acids and bases;
• Response devices will be used for both informal polling and quizzes, where students can work together or individually to answer questions.
Have you ever used Clickers before today?

0% 1. Yes
0% 2. No
0% 3. Umm.....what are clickers?
Which BSC school are you affiliated with?

1. Arts and Science
2. Business
3. Continuing and Distance Education
4. Education and Allied Studies
5. Graduate Studies
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B_I_G_W_T_R

1. UITRI
2. SEIPU
3. UKXOU
4. AREED

10
How many Earths could you line up across the Sun?

1. ~10
2. ~100
3. ~1,000
4. ~10,000
5. None of the above
Hillary Clinton has the best chance of being the democratic nominee for president

1. Strongly Agree
2. Agree
3. Neutral
4. Disagree
5. Strongly Disagree
Fastest Responders (in seconds)