

# Leslie Hendrix Management Science Darla Moore School of Business University of South Carolina







#### **Canvas and iClicker to Solve Problems**

#### Use iClicker

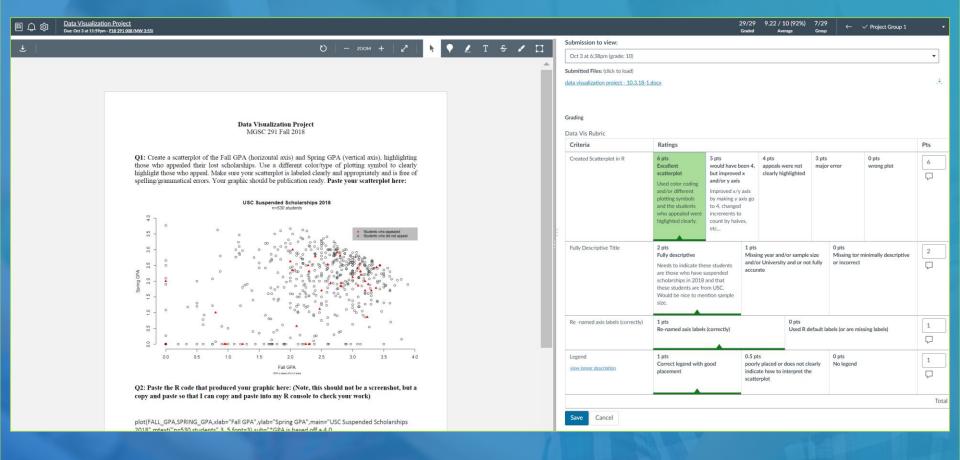
- To check retention from previous class
- To check for understanding during class
- To keep students focused and engaged
- Keep students from leaving lecture early
- For extra study questions before exams

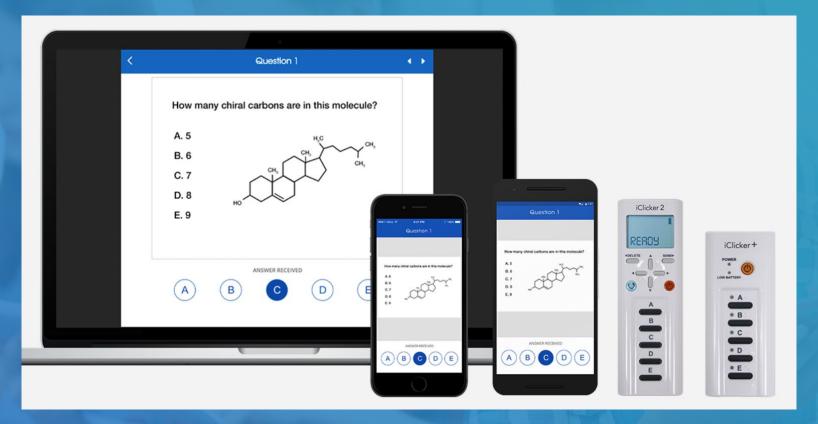
#### **Canvas and iClicker to Solve Problems**

#### **Use Canvas**

- For easy communication with students
  - My students are only allowed to message me in Canvas - no emails!
- Easy grading using the speed grader app
  - Group or individual assignments
- For the "what-if" grade feature!!!
- For the analytics
- For the intuitive interface and ease of use

#### **Canvas and iClicker to Solve Problems**

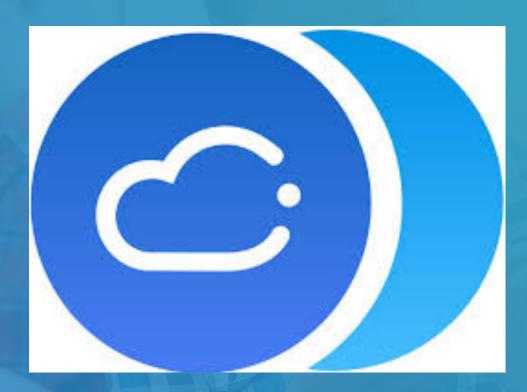




An iClicker base collects votes from remotes

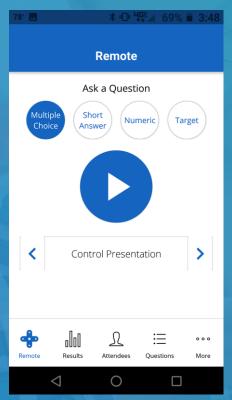


Votes from students using a Web enabled device are collected in the cloud



Control slides and polls with instructor remote or app









F18 291 008 (MW 3:55) > Modules















	View Progress	+ Module
	•	+ :
	•	+ :
∷ ► Exam 1 Material	•	+ :
	•	+ :
∷ ► Exam 3 Material	•	+ :

#### Instructions for iClicker REEF registration

Everyone must have a REEF account, regardless of the device you will use to vote in class (even if you decide to never vote)

Do not share a computer with a classmate while completing this process (you could associate their REEF account with your Canvas gradebook).

On the next page

- 1. Click "Reef registration Link"
- 2. On the page that pops up, either log into your existing REEF account or create a new one. Use your school email this will be your log-in name for REEF polling. You can leave "Student ID blank". Make a note of your password!
- 3. If you have a remote, enter your clicker number into the REEF system for "remote ID". If you plan to vote in class using a smartphone/tablet/laptop there is no need to have a remote.

◆ Previous

Next ▶

#### iCLicker REEF Registration Link

Everyone must sign into iClicker/REEF from here one time. Click the link below and either create a new Reef student account or log into your existing account. Doing this from here will link your Canvas and Reef identities for this course and allow me to synchronize your scores.

This tool needs to be loaded in a new browser window

Load iCLicker REEF Registration Link in a new window



**Email** 

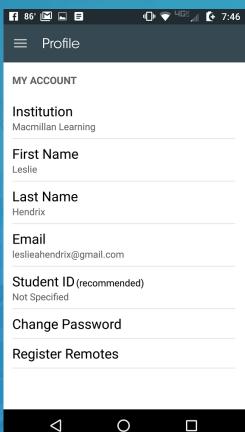
**Password** 

Sign In

Don't have an account? Sign Up!

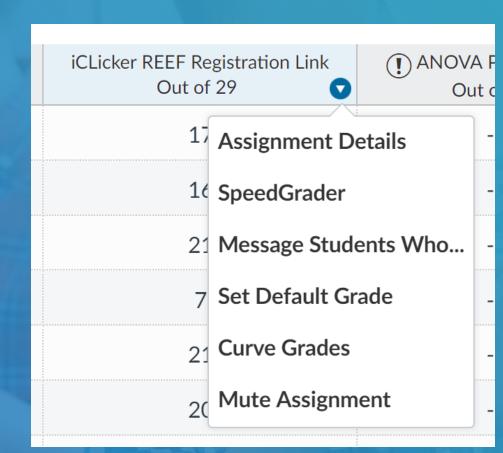




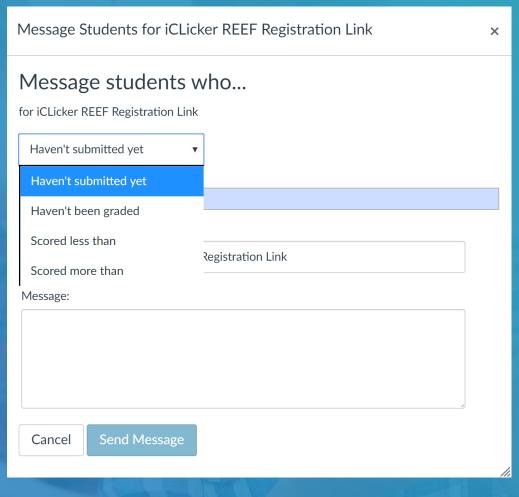


#### Canvas "Message Students Who" Feature

Find students who have not completed the registration process.



#### Message noncompliers easily using Canvas



#### Canvas "Message Students Who" Feature

#### Click REEF Registration ASAP







Leslie Hendrix,
F18 MGSC 291 008 (MW 3:55)

Please do the following and email me when you have done it:

- 1. Navigate to the REEF registration link in the first module in Canvas.
- 2. Click the rectangular box that says "Loaf iClicker Cloud REEF Registration in a new window"
- 3. Log into your REEF account in that pop-up and register your remote if using one.
- 4. Reply to let me know you have done this.

September 28, 2018 at 1:41pm





#### iClicker in Action



Open with 3 -5 clicker questions pertaining to the previous lecture --ALSO--Run an attendance session



Ask 5 - 8 clicker questions during a 1 hour lecture



Draw 10 random names at the end of lecture

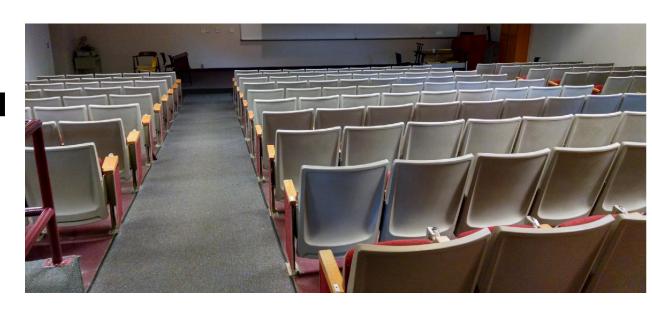


My approach is strategic to solve problems.

Let's talk about that...



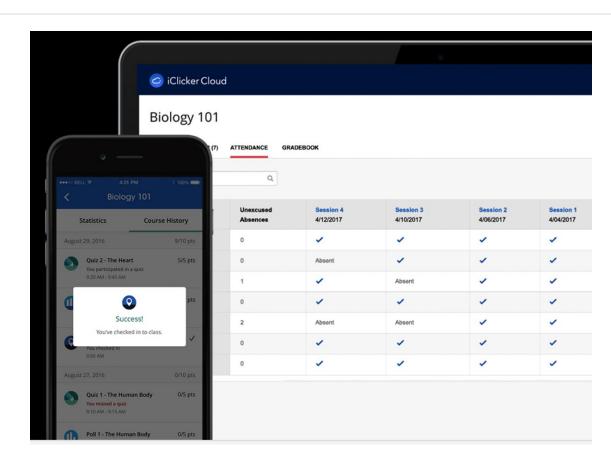
Use iClicker cloud to take attendance



#### **Location based**

#### **Easy to edit**

- Change status
- Add notes



### Ask questions as soon as class starts

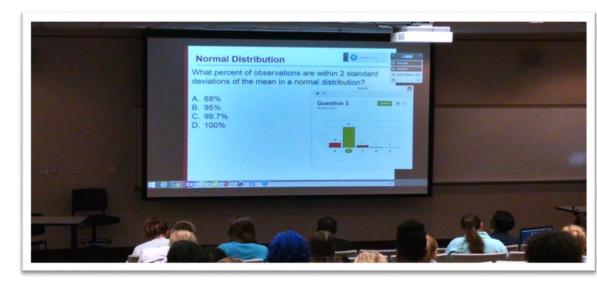
- Gets students engaged right away
- No wasted time!
- I ask review questions from previous lecture



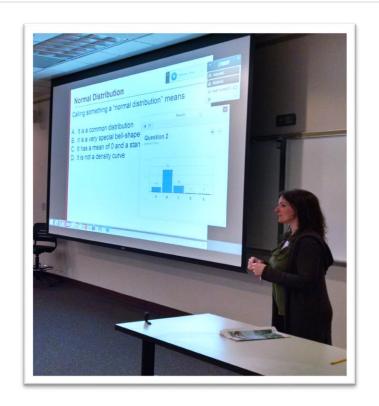
## Ask a question every 8 minutes or so

- Provides

   immediate
   feedback to
   student
- Provides
   immediate info for
   instructor

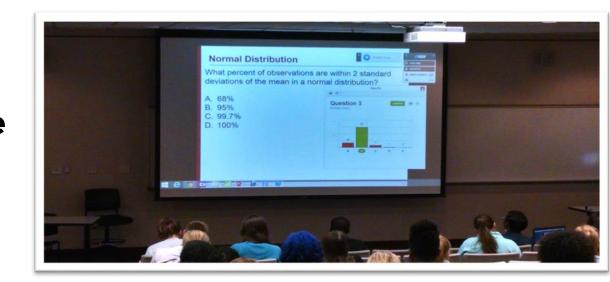


- Show results before closing the question every now and then
  - For tougher questions, show the results in real time
  - Encourage your students to discuss with each other
  - My students get a kick out of this!



## Close questions quickly

- Students hesitate to leave app to visit other websites
- Keeps them on their toes



Give ahead of time notice on some questions and make others a surprise



#### **Example**

Historically, 76% of students in an introductory psychology course have correctly answered the professor's favorite test question on Freud. This semester the professor gave a randomly selected group of students an extra lecture on the subject and wants to see if it will help them do better on the question.

What is the null hypothesis?

What is the alternate hypothesis?

Historically, 76% of students in an introductory psychology course have correctly answered the professor's favorite test question on Freud. This semester the professor gave a randomly selected group of students an extra lecture on the subject and wants to see if it will help them do better on the question.

The null hypothesis (H<sub>0</sub>) should be:

A) 
$$p < 0.76$$

D) 
$$p=0.76$$

B) p 
$$\neq$$
 0.76

- Ask questions "on the fly"
  - The i>Clicker software takes a screenshot of whatever is on your screen
  - You can make an internet website into a question

- Pro Tip: If you have an interesting/controversial poll or article on the screen, ask an opinion question
  - Students love to give their opinions!

#### When I Asked Students about iClickers...

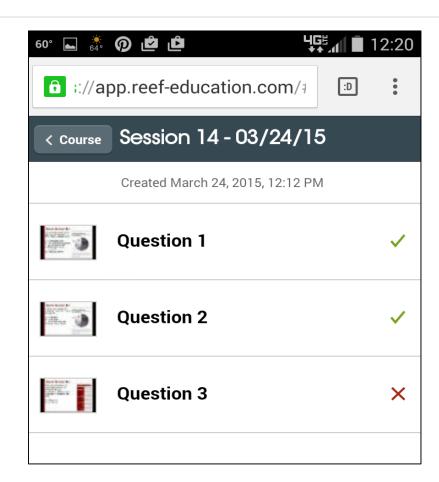
"I really love the iClicker system that we use in class. It keeps me engaged at all times and serves as a test to see how well I am comprehending the material being taught. I never know when an iClicker question will arise, so it also helps keep my attention and makes sure I stay fully focused! (:"





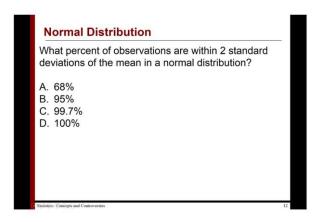
## Use iClicker cloud and encourage students to get a REEF subscription

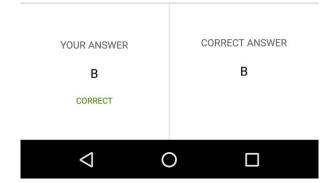
- They may forget their i>clicker but will never forget their smartphone!
- Nobody says "I didn't know I wasn't accumulating i>clicker points."



☐ 91° □
 ☐ Question 1

- Students can study from the questions
- Absent students have this same information
- iClicker voters have this same information



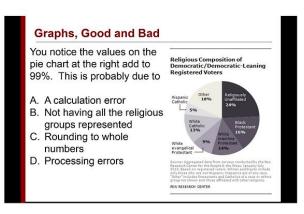


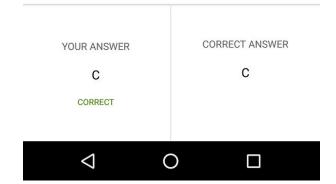
# **Strategic Solutions**



Never stop to let students write down clicker questions again!

They have a screenshot of every question with the correct answer



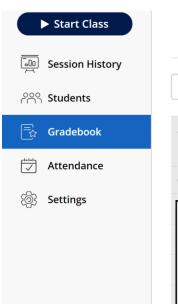


# **Strategic Solutions**

 A Google search of "students leaving early from college lecture" returns about 59,500,000 results!

- Draw random sample of student names at the end of each lecture
  - Students on list show photo ID
  - Clicker points, but do not show with ID earns a referral to academic integrity

## iClicker Cloud Gradebook





## **Canvas Notifications**















<u>Leslie Hendrix</u> > <u>Notification Preferences</u>

#### **Notifications**

**Profile** 

<u>Files</u>

<u>Settings</u>

<u>ePortfolios</u>

#### **Notification Preferences**

✓ Notify me right away

Send daily summary

× Do not send me anything

Course Activities	Email Address leslieahendrix@gmail.com	Twitter leslieahendrix	Cell Number 8033610417@vtext.com	Push Notification For All Devices
Due Date	✓ () 🛗 ×	✓ ×	×	✓ ×
Grading Policies	✓ () 🛗 ×	✓ ×	✓ ×	✓ ×
Course Content	✓ () <b>(iii)</b> ×	✓ ×	✓ ×	✓ ×
Files	✓ () m ×	✓ ×	✓ ×	✓ ×
Announcement	✓ () <b>(iii</b> ×	✓ ×	×	✓ ×
Announcement Created By You	✓ () <b>=</b> ×	✓ ×	✓ ×	✓ ×
Grading  Include scores when alerting about grades. If your email is not an institution email this means sensitive content will be sent outside of the institution.	✓ () 🗎 ×	✓ ×	×	✓ ×

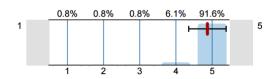
# **Strategic Solutions**

What do students think?

## **Recent Course Evaluations**

#### LESLIE A. HENDRIX, STAT 110

1.15) well-utilized class time, either by lecture, group work, student presentations or other activities.



n=131 av.=4.87 dev.=0.52

#### 2. INSTRUCTOR OVERALL

OVERALL, considering all aspects, I rate the overall performance of my instructor as:



n=136 av.=4.88 dev.=0.43

#### When I Asked Students about i>Clickers...

"My favorite part of STAT 110 is the I-Clickers, it makes class feel like a game show. It's a great way to see if I have learned anything or if I need to still work on certain problems from the lesson that day."

#### **Recent Course Evaluations**

765itves: Helpful clicket guestions and homework assignments Negatives: none!

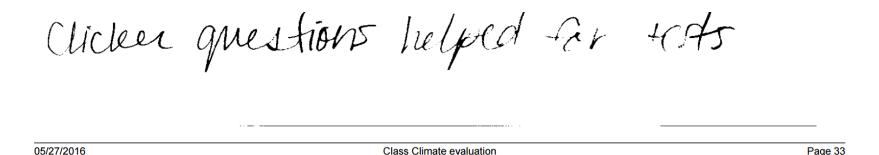
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05/27/2016 Class Climate evaluation

Positives: Helpful clicker questions and homework assignments.

**Negatives: None** 

# **Spring 2016 Course Evaluations**



## **Clicker questions helped for tests**

# **Spring 2016 Course Evaluations**

positive-dicker points to trake up missed nonemork
regalive-:

Positive - clicker points to make up missed homework Negative - none ©

# **Spring 2016 Course Evaluations**

- Poweroints were good and dister exections rolly helperd

# Powerpoints were good and clicker questions really helped

## When I Asked Students about i>Clickers...

"PRACTICE QUESTIONS WITH REWARDS OF CLICKER POINTS... gives the class an opportunity to practice what we just covered which allows us to better understand the material. The clickers makes it possible to interact with you and get positive feedback without massive chaos since the class is close to 200 students. The questions make me feel like I am back at my community college with only 15-20 students per class. The points are a great incentive for attending class...."

#### When I Asked Students about i>Clickers...

"My favorite part of STAT 110 is the iClicker. I think it is a great way to not feel like I'm in such a large lecture because I am able to check and see if I actually know what is being taught."





**Thank you!**