



Minnesota eLearning Summit

Minnesota eLearning Summit

2016

Jul 27th, 3:00 PM - 4:00 PM

Exploring the Flipped Side: Inside and Outside the Flipped Classroom

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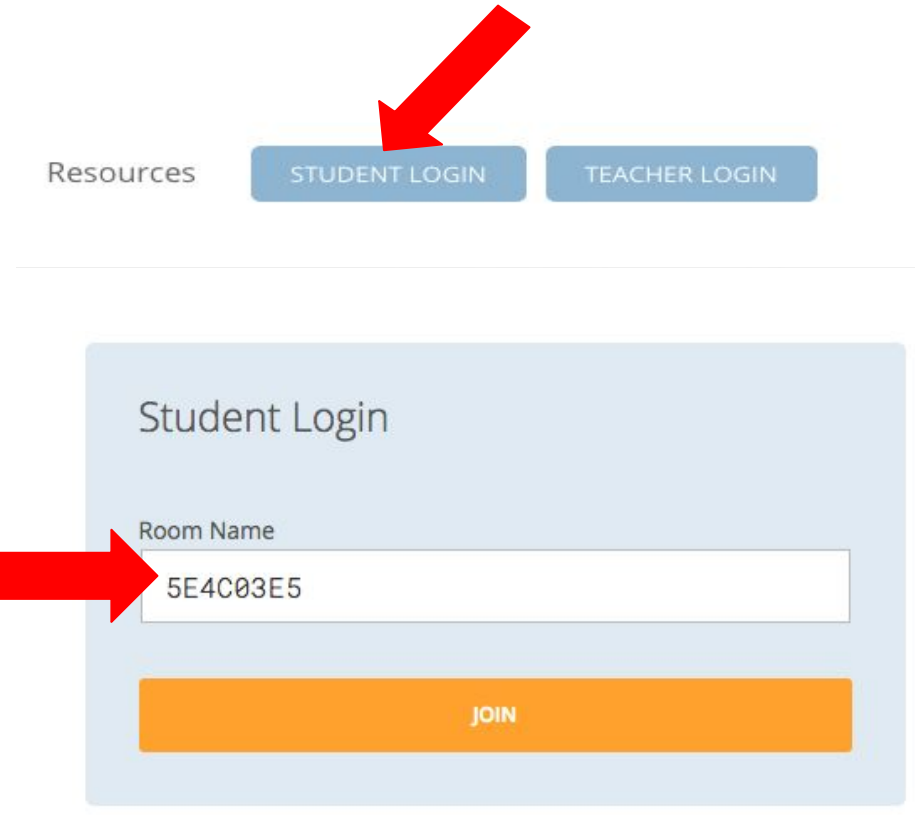
Exploring the Flipped Side: *Inside and Out*

Kate Borowske, Gina Erickson,
Caroline Hilk, Nicole Nelson
Hamline University

Welcome to Exploring the Flipped Side: *Inside and Out*

1. Log-in to: [Socrative.com](https://www.socrative.com)
2. Click on STUDENT LOGIN
3. Add our Room Name
4. Complete the short survey

Room Name
5E4C03E5



Resources

STUDENT LOGIN

TEACHER LOGIN

Student Login

Room Name

5E4C03E5

JOIN

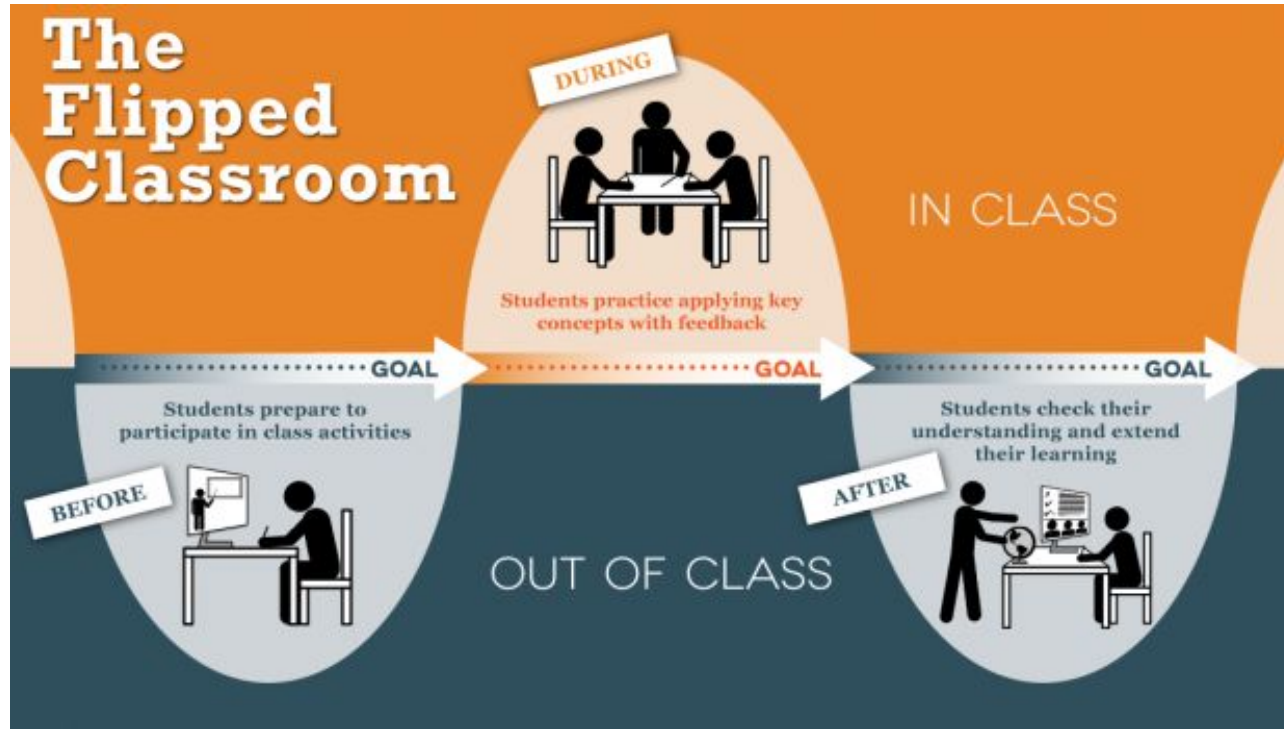
Session Objectives

This session will:

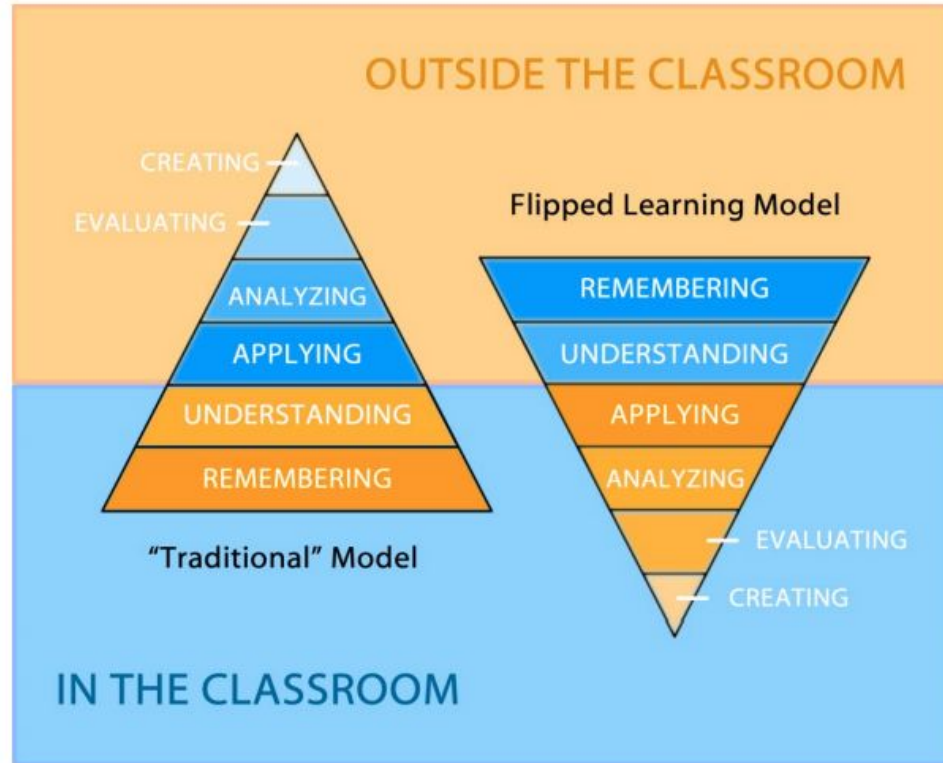
- Show one model for supporting instructors who want to flip
- Explore a few examples from flipped classrooms
- Identify activities to support learning *inside* the classroom
- Introduce tools and resources to support learning *outside* the classroom
- Discuss how this model could be implemented at your institution



What is the Flipped Classroom?



What is the Flipped Classroom?



Basics of Hamline's Flipped Faculty Institute

- Day-and-a-half institute, one-on-one consultations, online check-in
- Collaboration of library support, teaching support, technology support
- **Goal:** faculty will flip at least two class sessions (start small!)
- Participants experienced online (outside) and face-to-face (inside) activities to explore topics of course redesign, technology integration and student collaboration.
- Offered tools and small monetary incentive to complete the project.



Introduction Videos



Created with Screencastify



Created with Screencast-o-matic



Created with Animoto

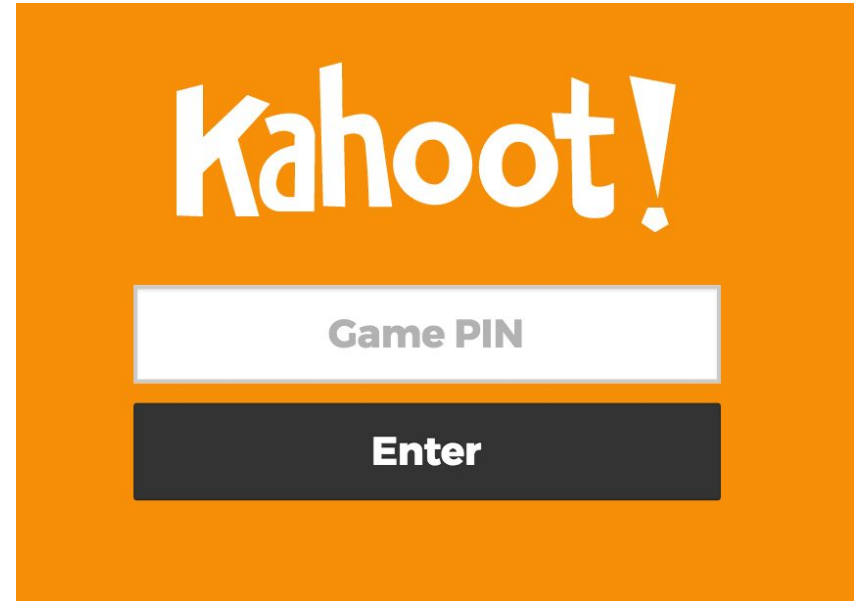


Created with Powtoons



What did you learn? *Low-stakes quiz*

1. Go to: kahoot.it
2. Enter the pin on the screen



Outside-of-Classroom Resources to Support Inside-the-Classroom Activities

Case Study: Introduction to Music Theory course

- **Problem:** Course used scanned pdfs in LMS. Copyright issue.
 - **Solution:** Removed pdfs and replaced with links from the LMS to journal articles.
- **Problem:** Students needed better access to key music ency. housed in the Library.
 - **Solution:** Library subscribed to online edition and provided links from the LMS to specific topics.
- **Problem:** Students needed 24 x 7 access to music recordings.
 - **Solution:** Kate created a Research Guide to direct students to Library's databases, which include streaming music and videos. Prof made a link from LMS to Guide.
- **Problem:** Some students lacked the necessary music theory foundation for the course.
 - **Solution:** Chose videos on music theory from Library's streaming video collection and provided links from the Research Guide to videos on specific topics.

Materials to Support Outside-of-Class Learning

Music in World Cultures: Home

A guide to resources supporting the course, Music in World Cultures.

Home


Research

Elements of Music

Course Description

This course introduces selected musical traditions from around the world, including Oceania, Latin America, or North America. Students will be introduced to the historical context and various forms of human musical expression including melody, rhythm, harmony, timbre, texture, and form. Students will gain a glimpse into the musicians' perspectives.

Experience the Music

- [Naxos Music Library](#)  Streaming access to a very large collection of music, including world music and many of the others, e.g. Artist, Performing Group, and Instrument, many of which are available on demand.
- [Films on Demand](#) A user-friendly video streaming service with thousands of high-quality educational films. Films on Demand includes titles from the BBC, PBS, Films for the Humanities and Sciences, and others. Special features allow you to organize and bookmark clips, create playlists, and more.
- [Academic Video Online](#) Academic Video Online allows users to cross-search all of the streaming video content in the integrated streaming video experience across a range of disciplines and subjects.



 Theater Mode

[Now Playing](#) [Related](#) [Share](#) [Add to](#) [Citation](#) [Custom Segment](#)

Name that Timbre Part 2 (FULL VIDEO) (04:15)

126 VIEWS

Supporting Faculty with Technology

Case Study: Advanced Legal Studies course

Problem:

Students were not watching the video lectures the professor was requiring them to watch outside the class. Students were coming to class unprepared to discuss what they were required to watch and listen to.

Goal:

Find a solution to hold the students more accountable of the work they are required to do before coming to class so they are prepared for work inside the classroom.

Solution:


Introduced her to Zaption and EdPuzzle as 2 possible ways to create interactive videos. Allows users to create quizzes and questions right within the video. Can view whether students have watched and how they answered the questions.



Example of EDpuzzle

Assign | Share Edit Duplicate Remove ×

Copy of Welcome Video



What is the President's Name?
 Dr. Silly
 Dr. Miller
 Dr. Thriller

Submit Skip ↺

🔊 ? ▶ 0:30 01:23 🔊 📺

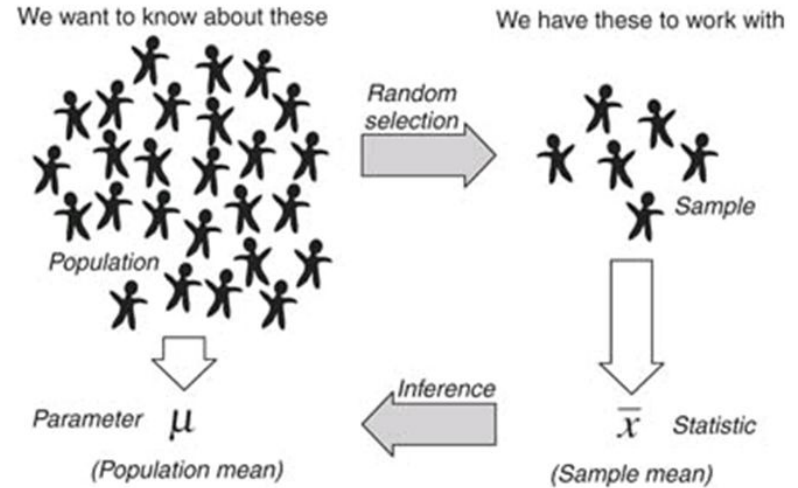
Faculty Perspective from Institute Participant/Mentor

- Why flip?
- Why participate?
- What I gained



Faculty Perspective from Institute Participant/Mentor

- Two related topics
 - Sampling techniques
 - Why samples work to estimate populations
- Add in-class experiment to statistics



Faculty Perspective

Week 7

● How?

- The old way
 - Lecture
- A little better
 - Lecture plus small group discussion/sharing of example
- Flipped
 - Pre-class videos
 - Group presentation with instruction and example
 - Hand in notes, scanned in to BB
- The next time
 - Incorporate Google slides on BB to present, edit, have notes in one place
 - (and less work for me)



Sampling Techniques Notes

Please complete a slide with your group's notes about your sampling technique. Materials from presentations and notes will be on the exam.

Notes for Sampling Techniques

CJFS 1140
Section 1 (10:20-11:20)

Faculty Perspective

- The old way

With a partner, draw 15 samples of 5 cards and record the average for each.
Then, draw a histogram of the frequency distribution of the averages.

k	13
q	12
j	11
10	10
9	9
8	8
7	7
6	6
5	5
4	4
3	3
2	2
a	1

Faculty Perspective

- The old way
- A little better


www.random.org/playing-cards

- | | | |
|---|----|----|
| ■ With a partner: | k | 13 |
| ■ Draw a sample of 5 cards | q | 12 |
| ■ Record the average of the sample (using the scores to the right) in excel | j | 11 |
| | 10 | 10 |
| | 9 | 9 |
| | 8 | 8 |
| ■ Repeat to get 10-12 samples | 7 | 7 |
| ■ Email me your sample means (gericksonog) | 6 | 6 |
| | 5 | 5 |
| ■ Calculate the mean of your means | 4 | 4 |
| | 3 | 3 |
| ■ Record lowest, highest, and mean of means on board | 2 | 2 |
| | a | 1 |

Faculty Perspective

- The old way
- A little better
- The current way
 - Consultation
 - Google forms


 Homework card draw

Enabled: Statistics Tracking
Attached Files:  draw_cards.pdf (112.24 KB)

www.random.org/playing-cards

#	Homework	k	13
*	Draw a sample of 5 cards	0	12
*	Record the average of the sample (using the scores to the right) in the google form	10	10
*	http://goo.gl/forms/ZvBCIORIE1	9	9
*	Repeat to get 10-12 samples	8	8
*	Bring your data (10-12 means) to class on Wednesday	7	7
		6	6
		5	5
		4	4
		3	3
		2	2
		1	1

(click picture to access google form)

 Random.org link

Playing Card Shuffler

This form allows you to draw playing cards from randomly shuffled decks. The randomness comes from atmospheric noise, which for many purposes is better than the pseudo-random number generators typically used in computer programs.

Step 1: Number of Cards
Draw card(s) from shuffled deck(s).

Step 2: Deck Configuration

Which cards should be included?

<input checked="" type="checkbox"/> Spades (S)	<input checked="" type="checkbox"/> Hearts (H)	<input checked="" type="checkbox"/> Diamonds (D)	<input checked="" type="checkbox"/> Clubs (C)
<input checked="" type="checkbox"/> Aces	<input checked="" type="checkbox"/> Tens	<input checked="" type="checkbox"/> Nines	<input checked="" type="checkbox"/> Eights
<input checked="" type="checkbox"/> Sevens	<input checked="" type="checkbox"/> Sixes	<input checked="" type="checkbox"/> Fives	<input checked="" type="checkbox"/> Fours
<input checked="" type="checkbox"/> Jacks	<input checked="" type="checkbox"/> Queens	<input checked="" type="checkbox"/> Kings	<input checked="" type="checkbox"/> Jokers

Do you want to include jokers?
 Black Joker Red Joker

Step 3: Display Options

Your cards will be shown in the order drawn. You can choose from the following extra options

Show remaining cards face down
 Show cards as text instead of images


Step 4: Cut

Do you want to mix (shuffle) the cards to draw your cards...
 Yes No


[View Cards](#) [Reset Form](#)

Thanks to John Hightower for making the playing card images available!

Just change the Step 1 box to draw 5 - leave everything else as is (the default).

 **4. Confidence Intervals**

Enabled: Statistics Tracking
Four minute video on confidence intervals

 **5. Confidence Intervals Video Series**

Enabled: Statistics Tracking
Optional video series on confidence intervals

Card draw data (Responses)

gina.a.erckso

File Edit View Insert Format Data Tools Form Add-ons Help

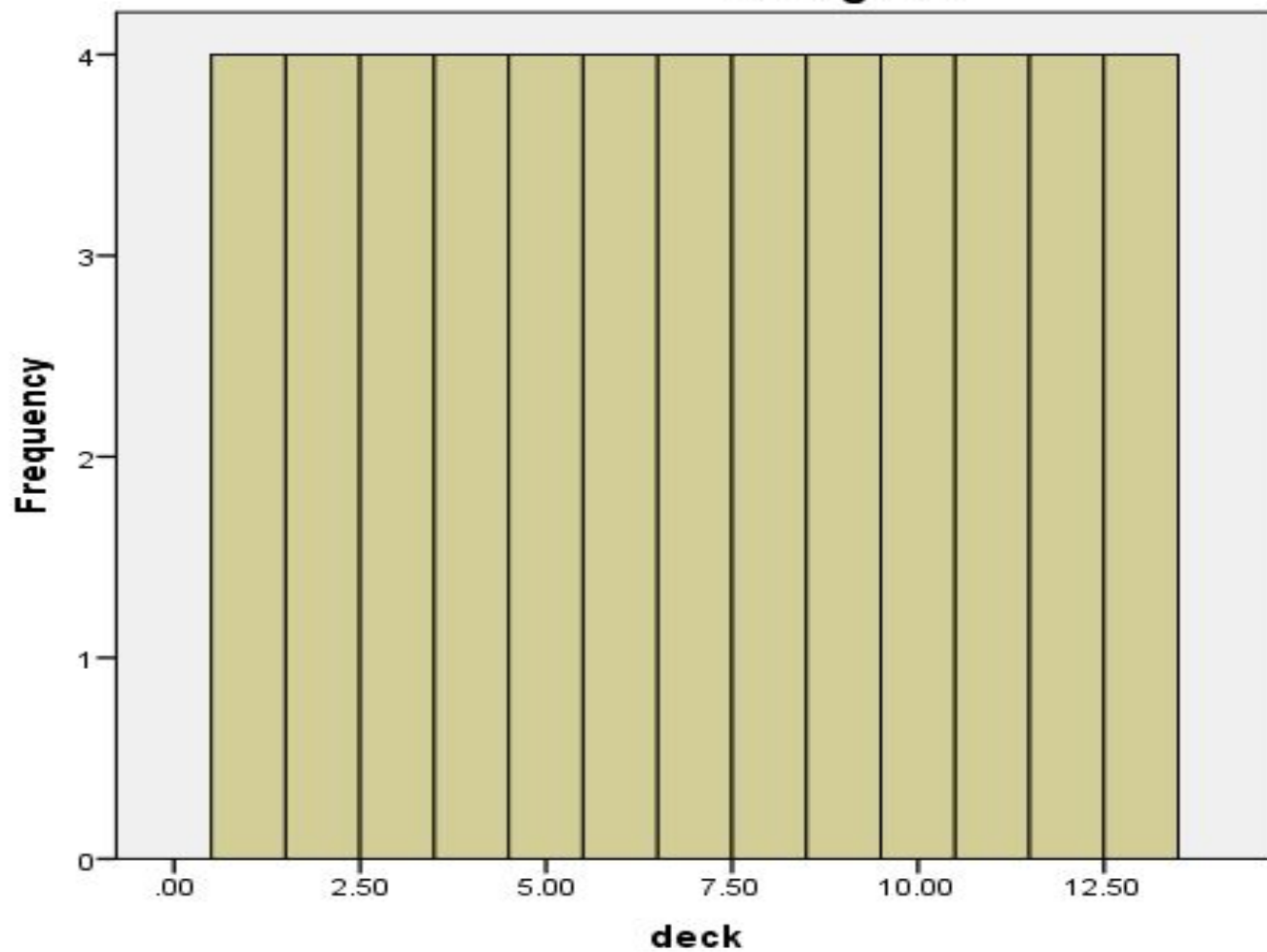
Comments

Rich text editor toolbar with icons for undo, redo, bold, italic, underline, text color, background color, bulleted list, numbered list, link, unlink, table, and other formatting options.

Timestamp

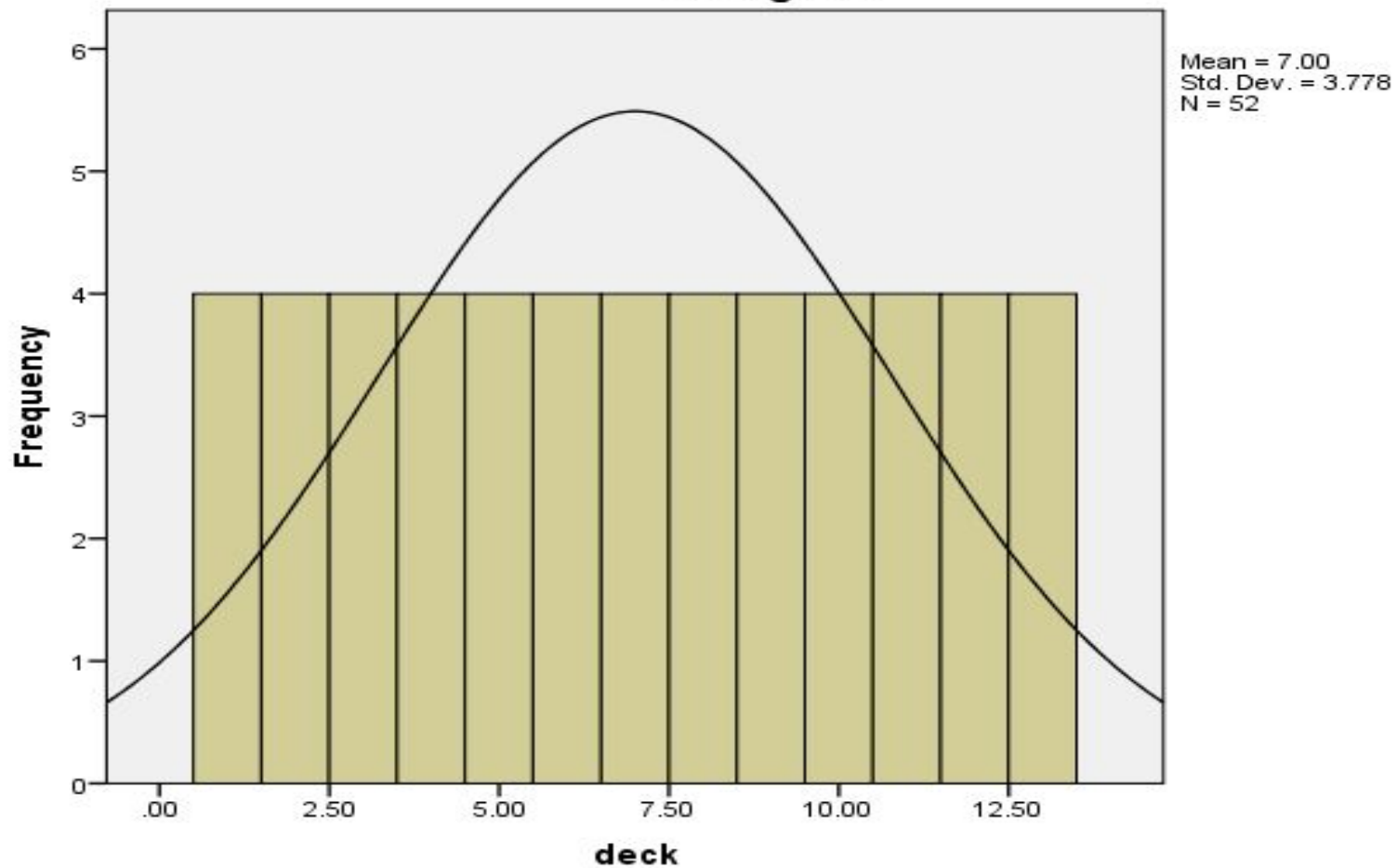
A	B	C	D	E	F	G	H
Timestamp	What is the mean of your	What is the mean of your	What is the mean of your	What is the mean of your	What is the mean of your	What is the mean of your	What is the mean of your
10/26/2015 11:55:28	5.2	7.6	8.2	6.2	7	6.8	7.2
10/26/2015 15:30:01	7.8	5.4	6	7.4	3.8	7	8.2
10/26/2015 17:12:32	9	9.6	7.6	8.2	7.2	9.4	4.6
10/27/2015 10:29:04	5.4	7.2	7.2	6.8	9.2	11.2	6
10/27/2015 13:33:59	5.4	8.2	6	6.2	5.4	6	4.6
10/27/2015 13:36:05	8	6.8	8.6	7.6	7.6	6.4	6.2
10/27/2015 16:51:34	7.6	5.4	9	5.4	7.8	7.8	6.8
10/27/2015 18:14:59	10.6	6.6	8.6	5.8	5	7.6	8.2
10/27/2015 19:27:18	9.6	6.2	8.4	10	9.2	3.2	8
10/27/2015 19:45:05	9.2	11.5	5.5	3.5	4	10	9
10/27/2015 22:04:44	5.6	4.2	9	5.8	5.8	9.2	8
10/27/2015 22:16:31	6.4	6.4	7.8	7.4	5.2	6	7.4
10/28/2015 7:46:40	6.8	5.2	5.2	5.2	6.4	9.8	7.6
3/18/2016 10:45:21	6.2	8	6.6	5	7	4.6	8.2
3/18/2016 12:42:09	7.6	6.6	4.4	7.4	8	7	9.2
3/21/2016 12:06:26	5.6	7.4	5.4	6.4	4.8	7	5.6
3/21/2016 12:15:47	7.4	4.4	4.4	7.4	11.2	9	4.8
3/26/2016 14:40:45	6.6	8.4	7.6	4.8	3.6	8	9.2

Histogram



Mean = 7.00
Std. Dev. = 3.778
N = 52

Histogram



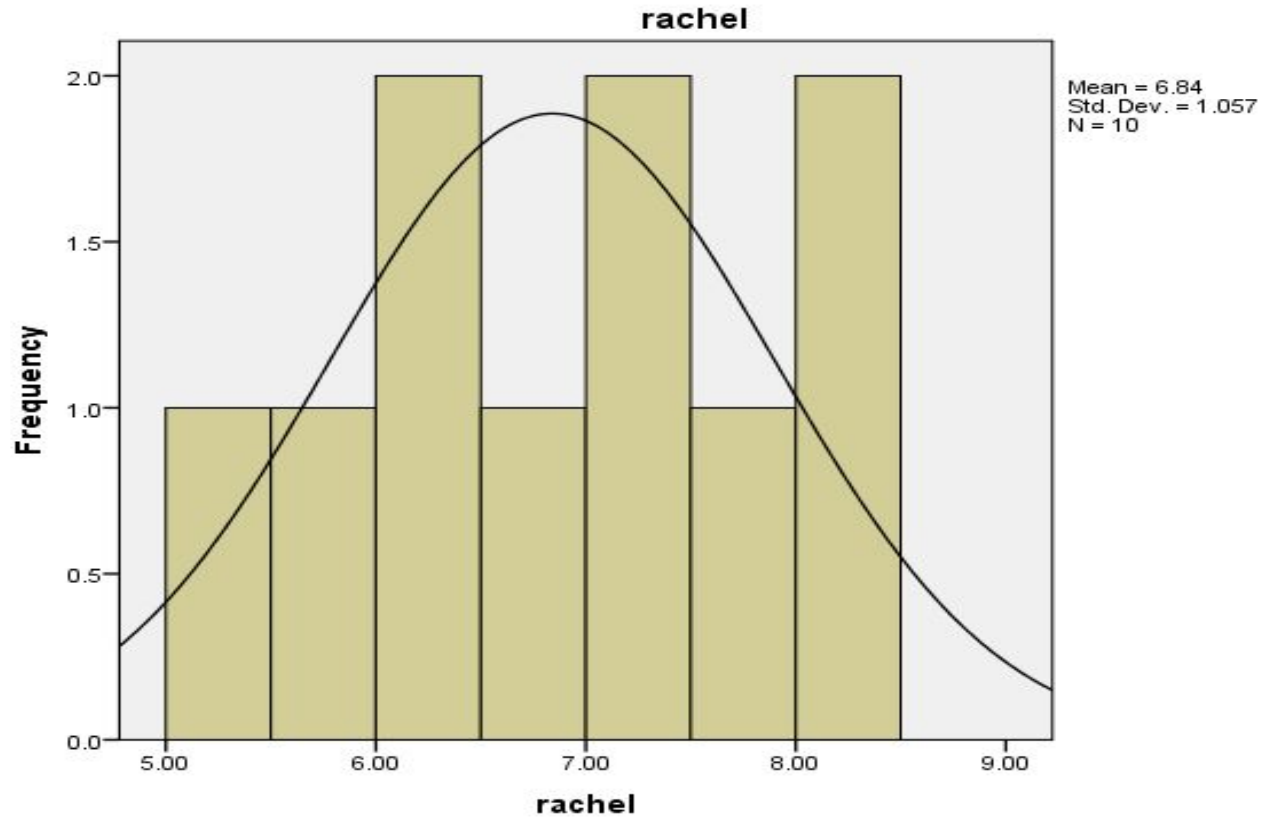
Sampling Distribution of Means

- A frequency distribution of a large number of sample means from the same population
- Approximates a normal curve
- The mean of the sample distribution of means (the mean of means) = true population mean

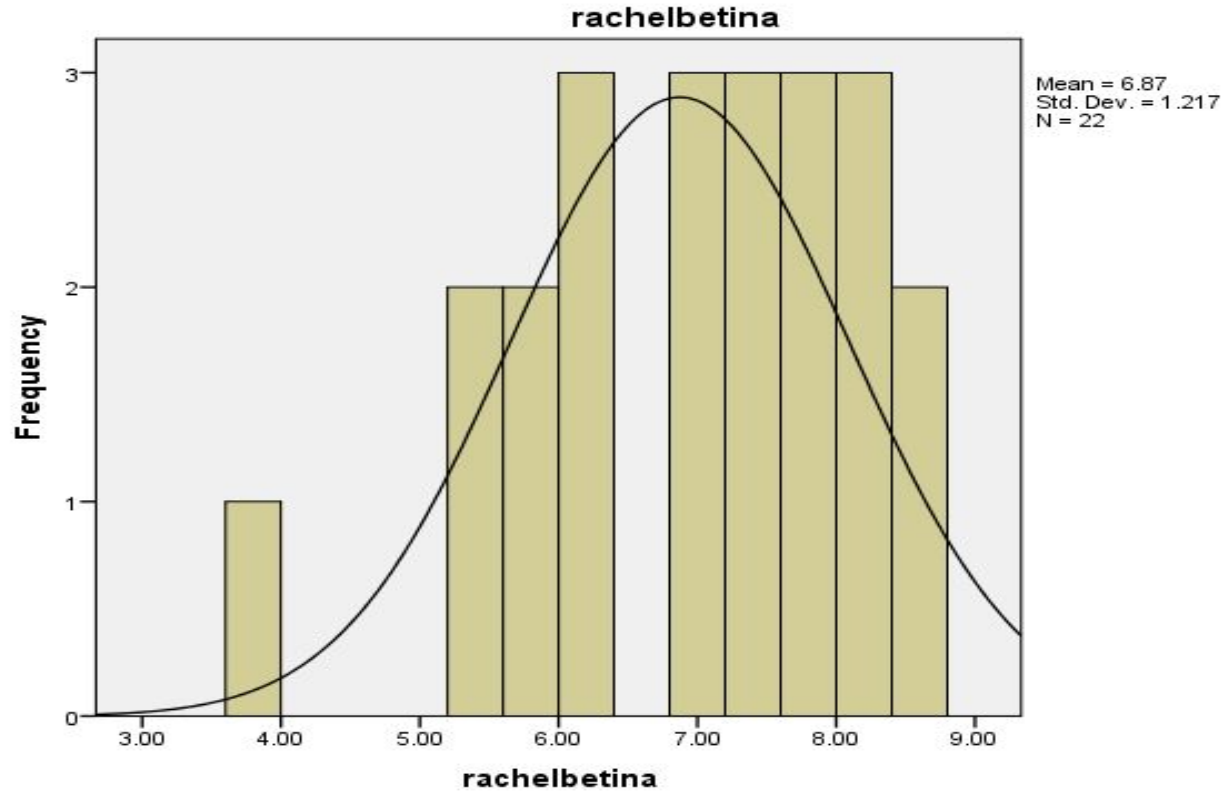
all_rounded

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3.00	1	.6	.6	.6
	4.00	6	3.7	3.7	4.3
	5.00	26	16.0	16.0	20.2
	6.00	33	20.2	20.2	40.5
	7.00	30	18.4	18.4	58.9
	8.00	34	20.9	20.9	79.8
	9.00	20	12.3	12.3	92.0
	10.00	8	4.9	4.9	96.9
	11.00	3	1.8	1.8	98.8
	12.00	2	1.2	1.2	100.0
	Total	163	100.0	100.0	

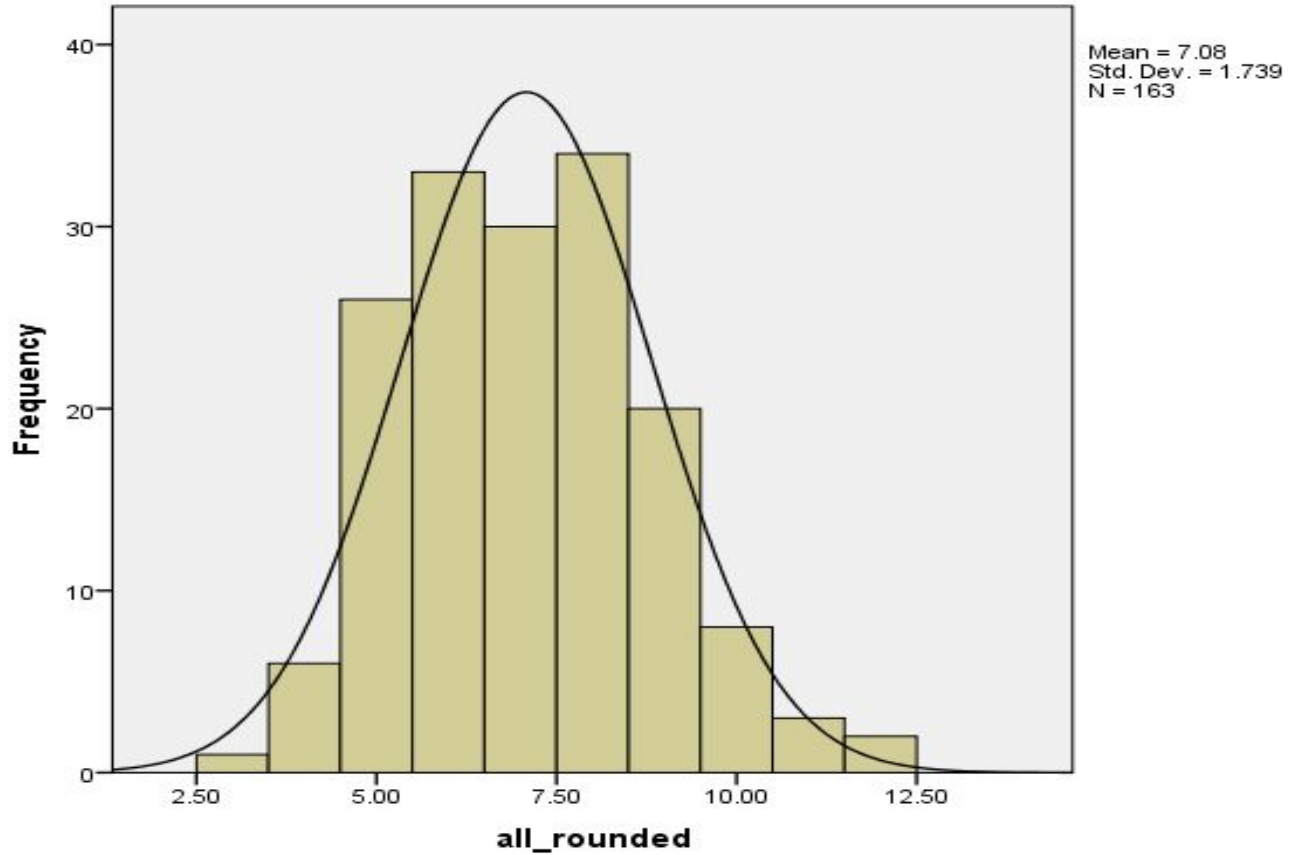
N = about 10



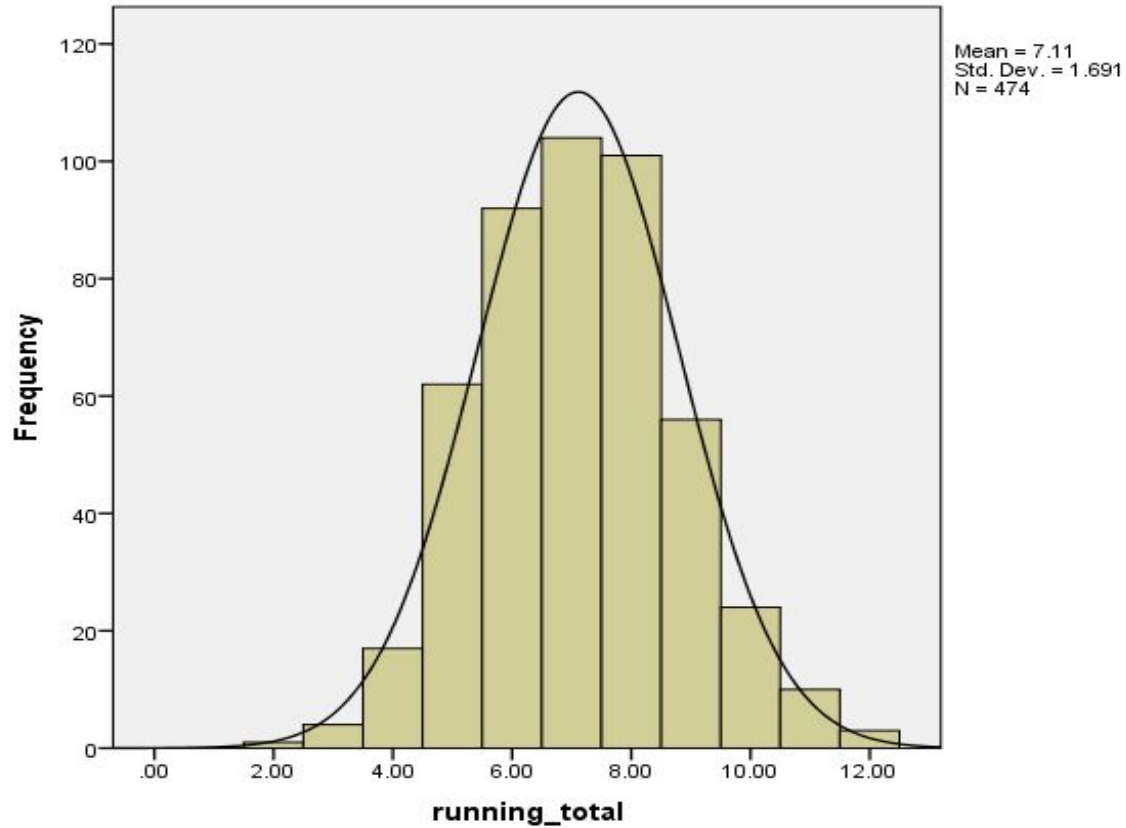
N = about 20



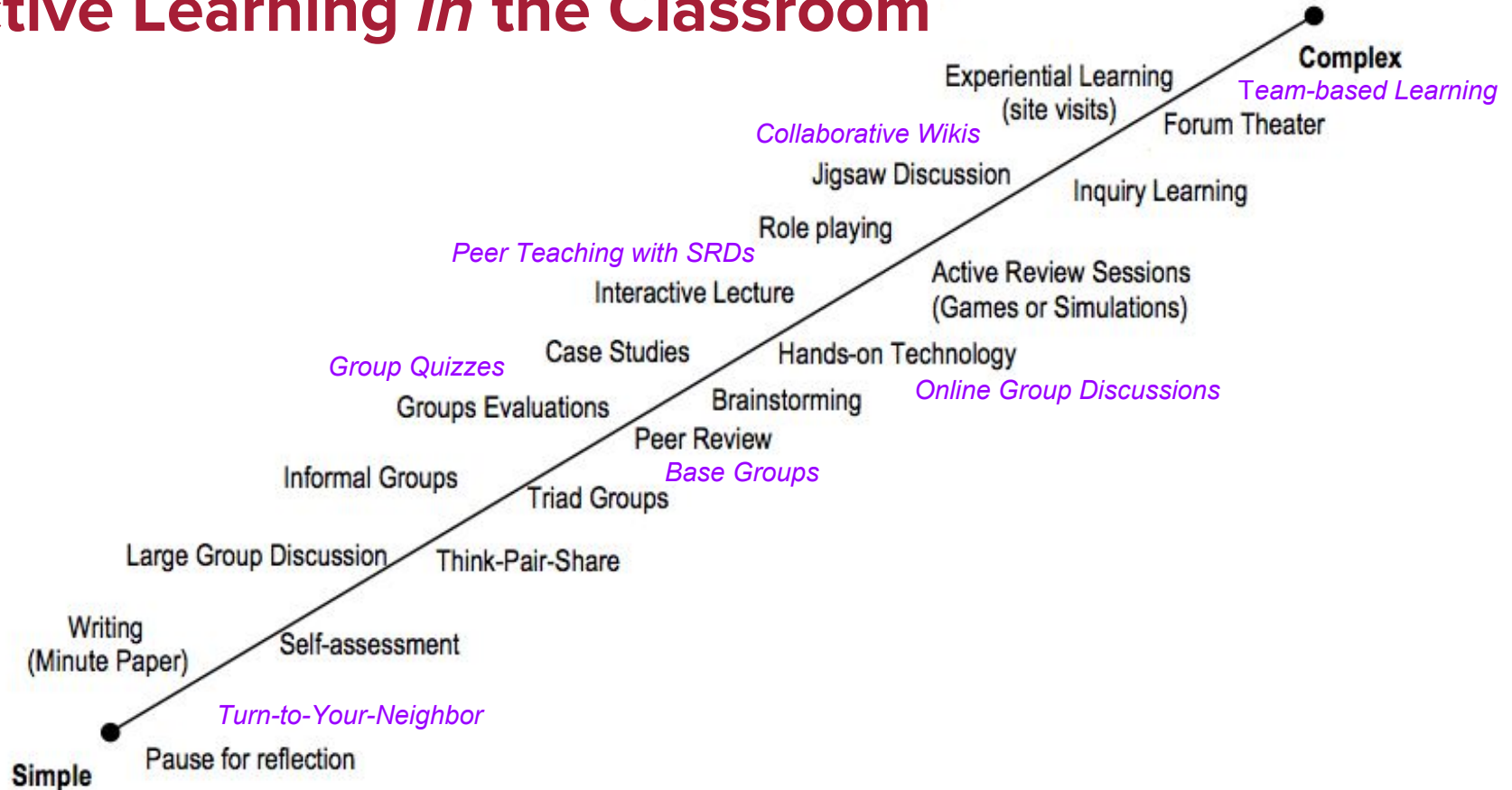
N = 163



N=474



Active Learning *In* the Classroom



What we heard from faculty about the Institute

- Introduction to resources, tools and solutions
- Opportunity to experiment in supportive environment
- Share experience and feedback with colleagues
- Enjoyable experience
- Train the trainer- develop local expertise within our departments



Think-Pair-Share

Turn to your neighbor and discuss how a Flipped Institute may be offered at your institution? What would you need to make this happen?



Closing Question and Reflection

What else do you wish you had learned in this session?

Contact us:

Kate Borowske, kborowske@hamline.edu

Gina Erickson, gerickson09@hamline.edu

Caroline Hilke, chilk01@hamline.edu

Nicole Nelson, nnelson23@hamline.edu

QR Code link to
resources and tools
demonstrated



Or, go to <http://bit.ly/2atFiaC>

