

Active Learning in Classes from 20-200 students



Elizabeth Cohn, RN, DNS
Columbia University
School of Nursing

Overview

- Classroom management
- Engaging Students
- Extreme Teaching

Nursing 101

- First course of the first year of nursing
- Gut course
- Blinded to an external certifying exam
- 200+ students
- Meets in June and July
- Students are terrified



The Haunting of Hammer 401

PLAN AHEAD, THINK AHEAD, BE COMPLETELY CLEAR

- exams (The Haunting of Hammer 401)
- Taking attendance
- Start time/end time/break time
- Arrivals and departures
- Questions during your presentation (lecture)
- Computers and texting
- Location of T.A.s

Basics for Introductory Classes

- Translate as you go. "We are going to talk about cyanosis until we are blue in the face."
- Four to six hours preparation for every hour of teaching.
- You should be able to explain it simply and in lay language.
- Find four or five people in the room at various distances and sides. Rotate your eyes to each of these students.



Tactics for Engagement

(1) Three new things I learned/The muddiest point

(2) Think Pair Share

(3) Clickers

“Think Pair Share” (TPS)

- two or three minutes to explore a question or a topic.
- We can do this to stimulate interest or discussion.
- It can be used to assure understanding after presenting new material to be sure everyone understands before we move on.

**Think Pair Share
for Idea Stimulation**

- What are some of the challenges of active learning?
- What are some of the benefits active learning?

Blood pH

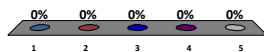
- Blood pH will change according to the level of carbonic acid present. This triggers the lungs to either increase or decrease the rate and depth of ventilation until the appropriate amount of CO₂ had been re-established.
- Activation of the lungs to compensate for an imbalance starts to occur within 1 to 3 minutes.

Think Pair Share to Reinforce Content

- What acid does the respiratory system produce?
- How does that substance control the acid-base balance in the body?
- What does the respiratory system do to correct an acid base balance?

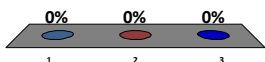
Audience Response Systems (clickers) can be used to...

- 1.
- 2.
- 3.
4. determine background or opinions
5. All of the above



You've inserted a review question and only 33% of your students correctly identified the causes of cyanosis. Do you:

1. Tell them to re-read the chapter on cyanosis before the test, and move on with your lecture
2. Take 5-10 additional minutes of lecture time to review cyanosis
3. Insert a TPS session and have students review the cyanosis module in pairs



Teach Through Case Studies

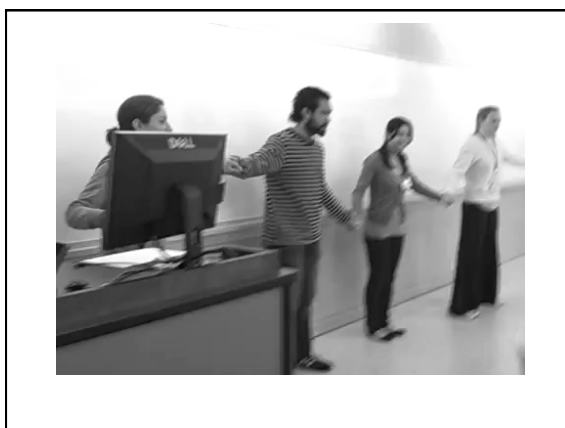
- Achieve mastery
- Actively engage them in the learning
- Experience in problem-solving
- Learning to work better in teams (often need guidance)

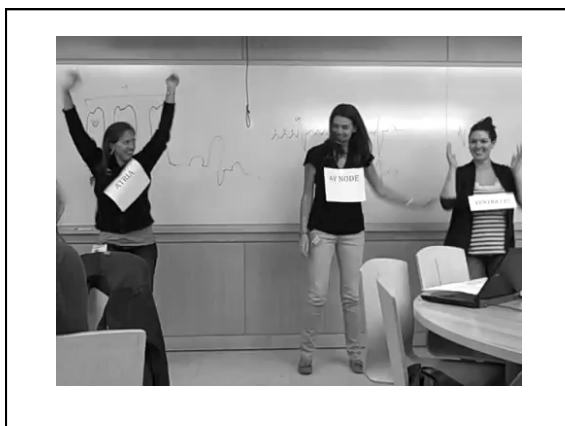
Teaching through Reflection

"I try to learn as much as I can from each patient I come across in my clinical experience. Everyone has a voice and it is important to keep in mind how the patient thinks and feels. I think one of the most powerful tools to have as a Nurse is the ability to relate to our patients and view health care through their eyes instead of always through the eyes of the provider."

Extreme Teaching

- Asking yourself a question?
- Performing a monologue
- Interpretative Dance of the ECG





It is a privilege to teach,
to be part of the future of my profession

To teach compassionate we must be
compassionate

Careful rehearsal is the key to spontaneity

The power of "I don't know"

(Have a quirk--mine is that I keep losing the pointer)
