

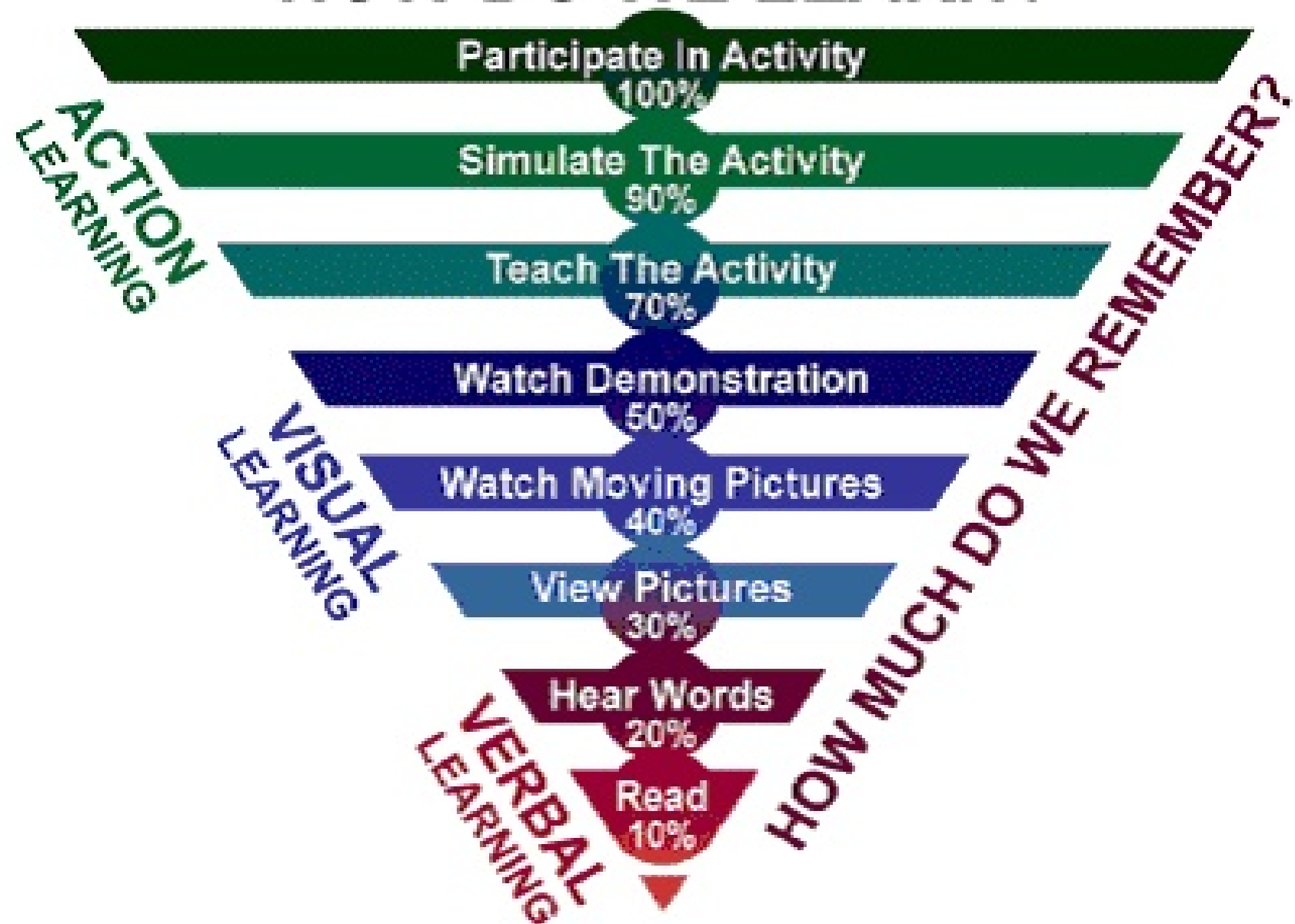


INNOVATIVE TEACHING TECHNIQUES

3 things I've Learned in School:

1. Texting without looking
2. Sleeping without
getting caught
3. Teamwork on tests

HOW DO WE LEARN?



TEACHING: UAB PEDIATRICS

- Morning Report – Case Conference
- QOD - Interactive
- Outpatient Morning Report Case Conference
- Bedside – Case Conference, Didactic, Interactive
- Journal Club – Flipped Classroom
- Noon Conference – Didactics/ Interactive (TP)/
Preparady/ Workshops
- Grand Rounds - Didactics
- Simulation – Case Conf, Role Playing,
Flipped Classroom
- Procedures - Hands On (Workshop, Sim, EKGs, etc)
- Morning Report, EBM Sr Talk Being the Teacher
- Computer training – Hands on
- PREP Questions, Mole, PEM - Self-study
- QI - Self-study, Workshop, Didactics
- PALS – Flipped Classroom



HOW DO EACH OF YOU LEARN BEST?

1. Reading/ Self study
2. Didactic lecture
3. Case based conf
4. Discussion
5. Simulation/ Role playing
6. Hands on
7. Technology based
8. Teaching



IF < 35 YO,

HOW DO EACH OF YOU LEARN BEST?

1. Reading/ Self study
2. Didactic lecture
3. Case based conf
4. Discussion
5. Simulation/ Role playing
6. Hands on
7. Technology based
8. Teaching



IF > 35 YO,

HOW DO EACH OF YOU LEARN BEST?

1. Reading/ Self study
2. Didactic lecture
3. Case based conf
4. Discussion
5. Simulation/ Role playing
6. Hands on
7. Technology based
8. Teaching



WHICH ONE BEST DESCRIBES YOUR MAIN TEACHING STYLE?

- Bedside teaching
- Case conferences
- Didactics
- Chalk talks
- Techno geek
- Simulation/ Role playing
- Small group discussion
- Games
- EBM/ articles
- Other



ONE SIZE FITS ALL...OR DOES IT?

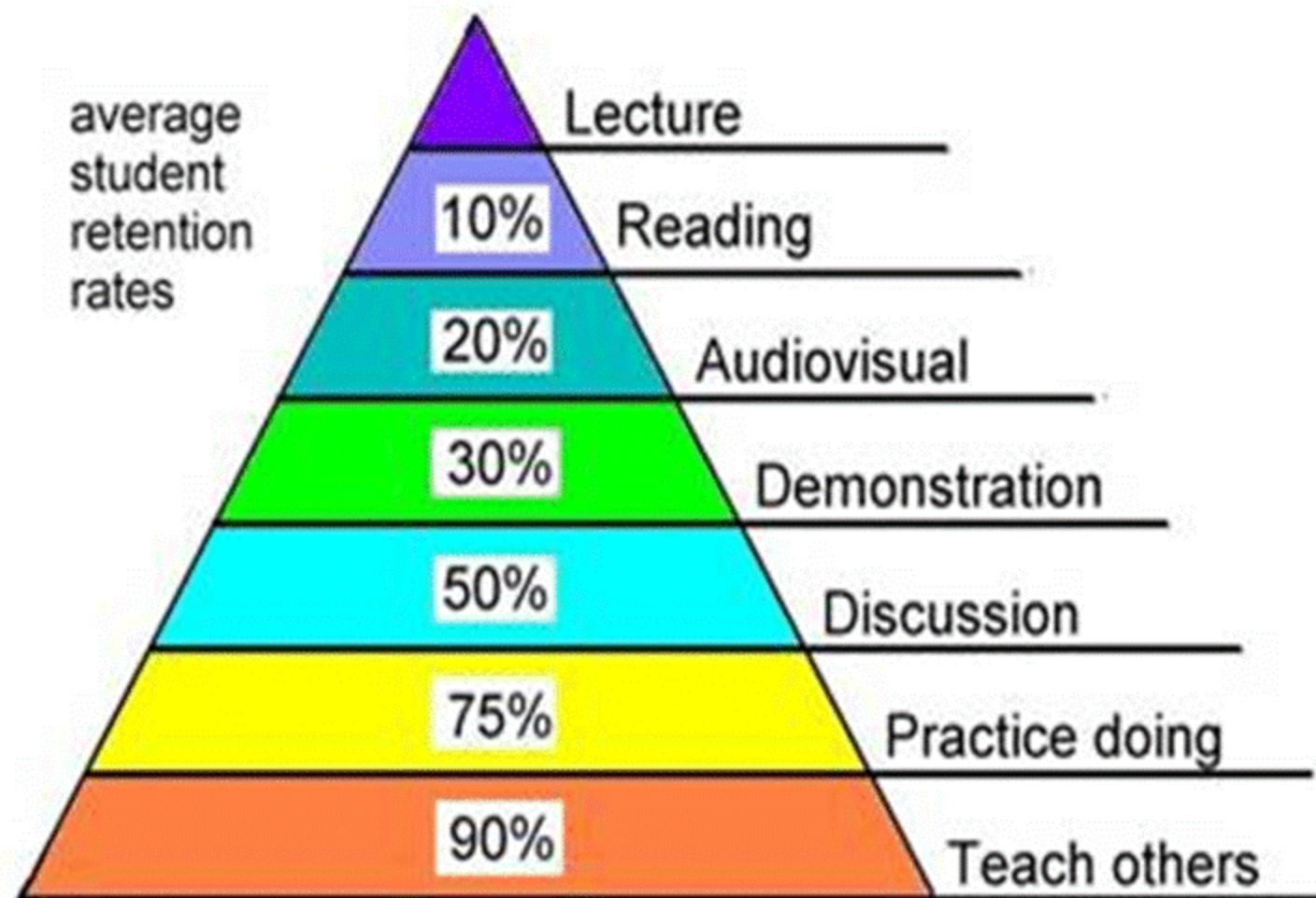


MILLENIAL LEARNERS

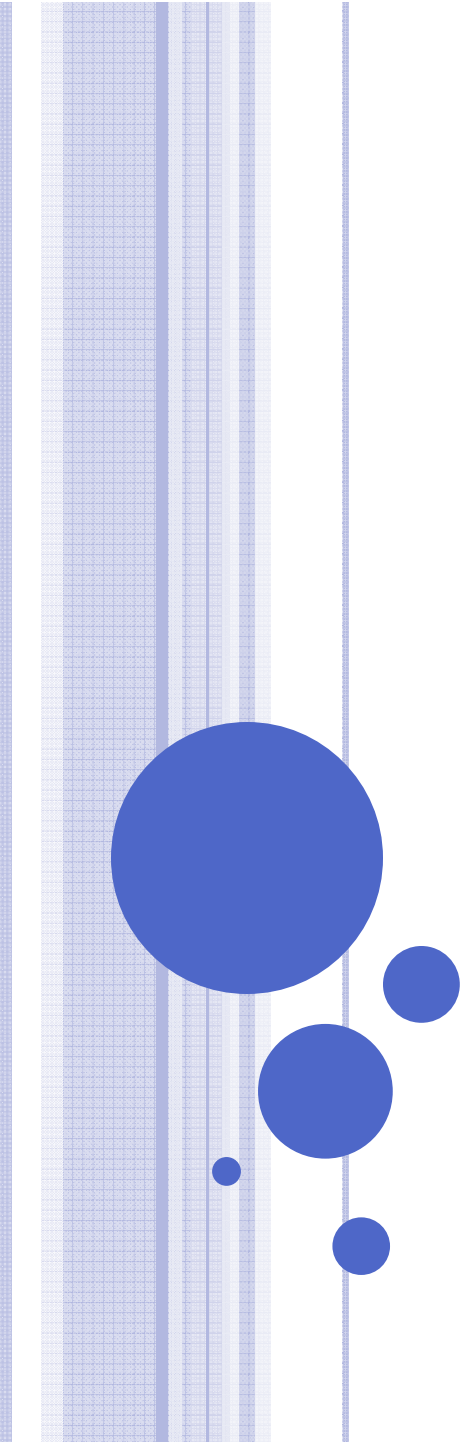
- Research based variety, multimedia, team
- Relevance got into, apply, outcomes
- Rationale want the why? Why important?
- Relaxed interaction
- Rapport extremely relational, fun



Learning Pyramid



Source: National Training Laboratories, Bethel, Maine



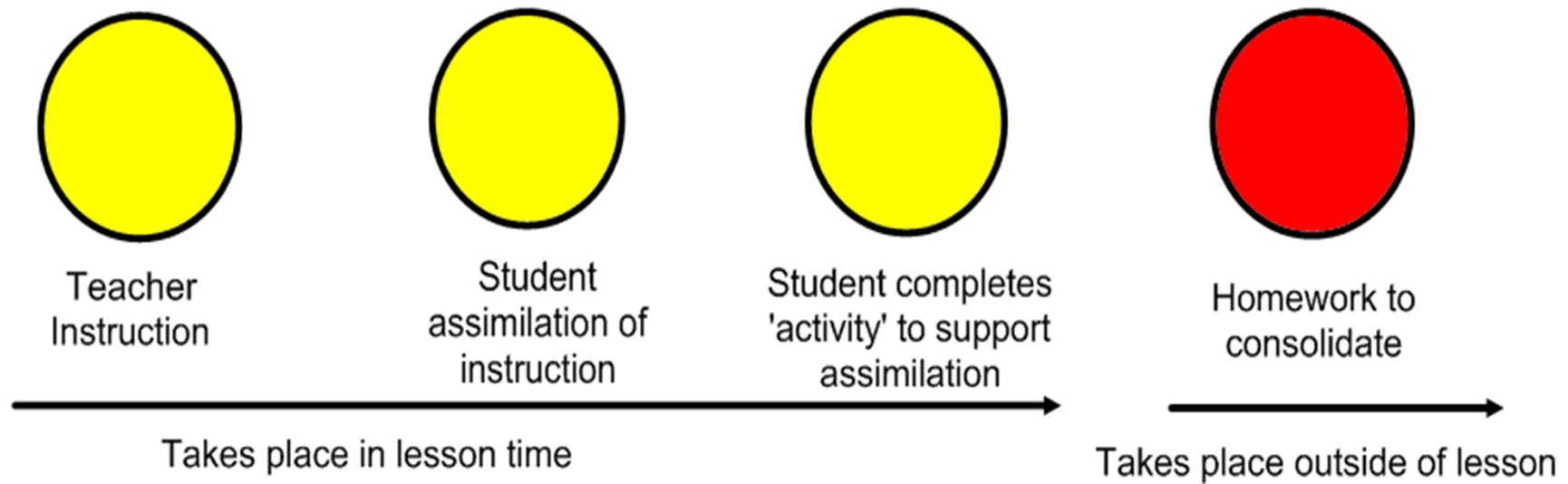
TEACHING TECHNIQUES: **THE FLIPPED CLASSROOM**



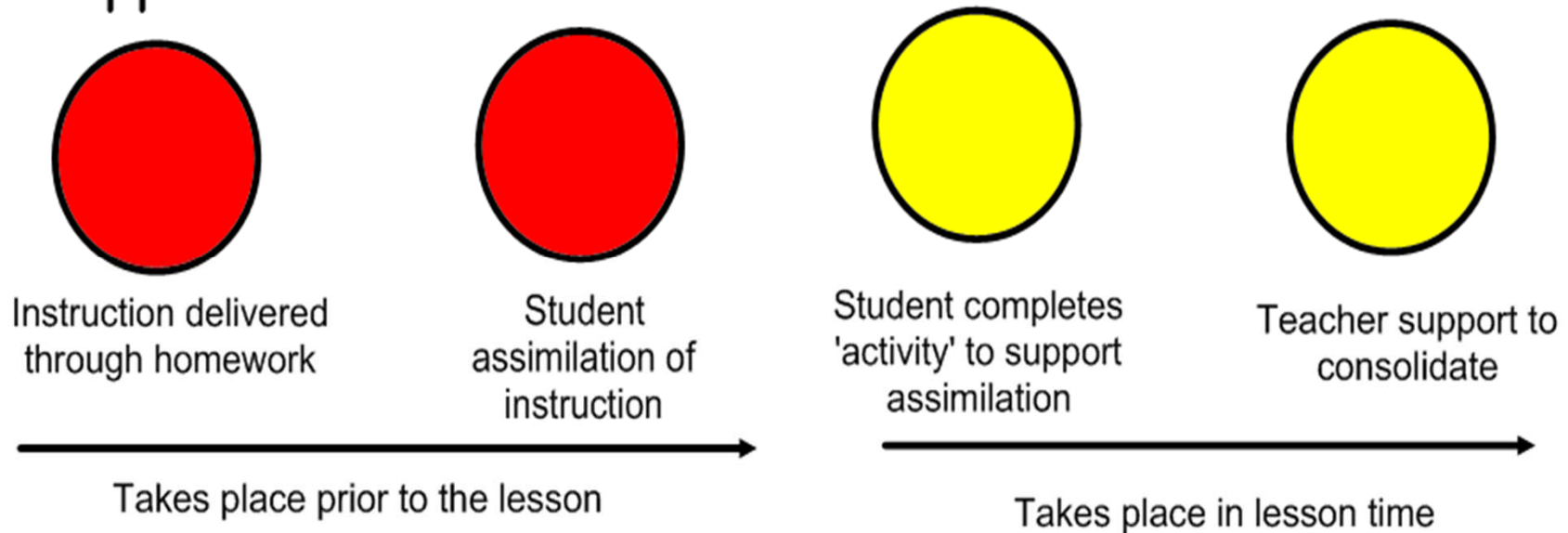
FLIPPING THE CLASSROOM

How Will You Reverse Instruction?

Traditional Model



Flipped Classroom Model



Flipped VS Traditional

Flipped

Teacher instructs lesson at home
(video / podcast / book/ website)

Students work in class.

- Deeper understanding of concepts, applications, and connections to content are made.
- Students receive support as needed.

Traditional

Teacher instructs

Students take notes

Students follow guided instruction

Teacher gives assessment

Students have homework

TECHNOLOGY



- <http://www.youtube.com/watch?v=iQWvc6qhTds> (penguins)
- <http://scopeblog.stanford.edu/2012/10/03/using-the-flipped-classroom-model-to-re-imagine-medical-education/> (Sal Khan)
- <http://flippedemclassroom.wordpress.com/2013/07/21/approach-to-abdo-pain/> (simple teaching)
- http://www.youtube.com/watch?v=0G-u1Q-Sb_c (LPs)
- <http://prezi.com/-vbtn0xnnyzx/my-flipped-classroom>



KHAN ACADEMY

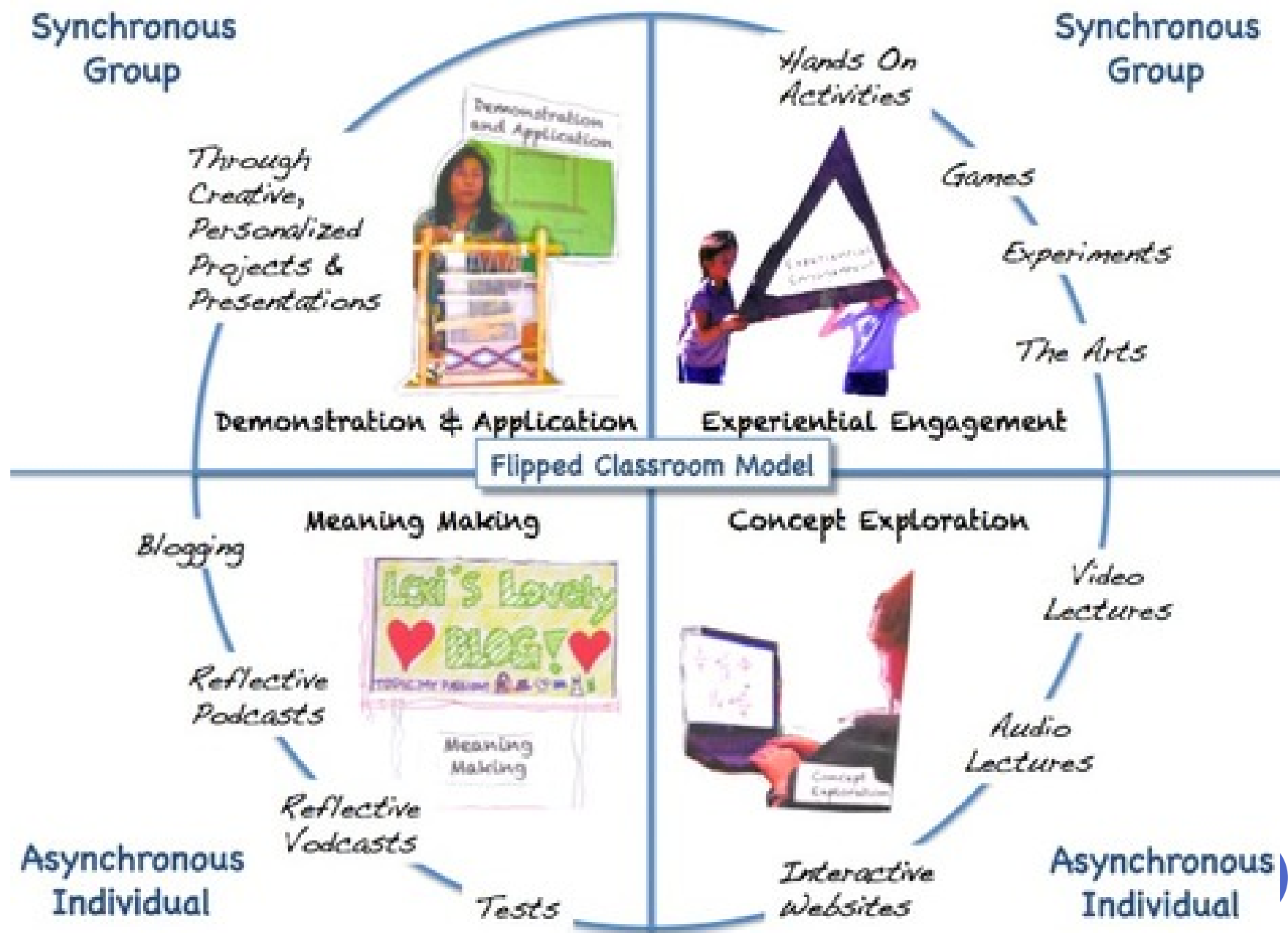


- Khan and Prober:
- Three-step road map:
 - First, identify a core curriculum—
concepts/ lessons-- taught through short, focused video clips.
 - Second, change static lectures into interactive sessions where students practice curriculum;
 - Third, students explore passions early on in their medical school careers – research to public health to global health

“Meet the learner where they are”

That’s the future model





FLIPPED CLASSROOM ACTIVITIES

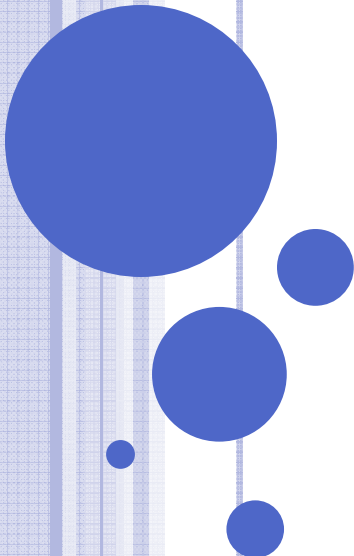
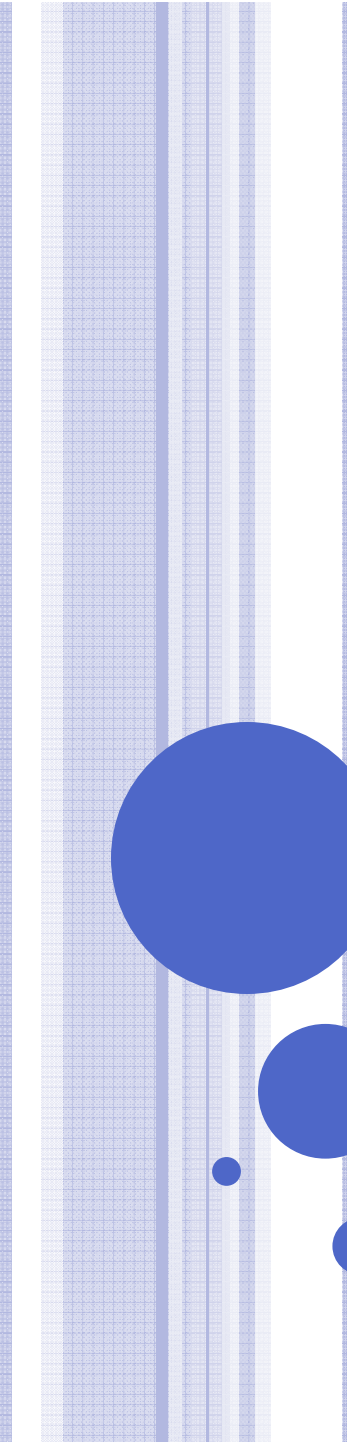
- Problem solving
- Game base learning
- Small group discussion
- Team based learning
- Debates



BARRIERS TO FLIPPED CLASSROOM

- Faculty buy-in
- Priorities – faculty and students
- Faculty time to create pre-work
- Student time to do pre-work
- Different learning levels
- Technology know-how, accessibility

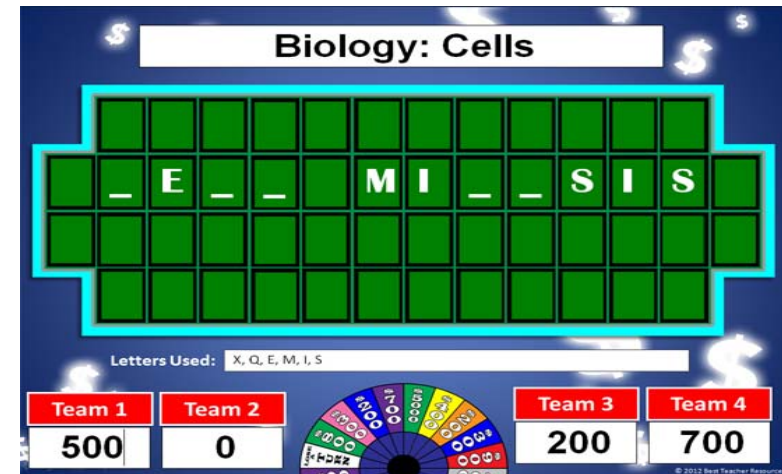




GAMES PEOPLE PLAY

GAMES PEOPLE PLAY...

- Deal or No Deal
- Family Feud
- Wheel of Fortune
- Hollywood Squares
- Smarter than a 5th Grader
- Jeopardy
- Password
- Who wants to be a Millionaire
- http://www.ircsd.org/webpages/dyoung/game_templates.cfm



The left side of the slide features a decorative arrangement of vertical bars and circles. There are four vertical bars of varying heights and widths, with the second bar from the left having a fine grid pattern. To the right of these bars are five solid blue circles of different sizes, arranged in a descending, staggered pattern from top to bottom.

JUST IN TIME TEACHING

JITT



- Focuses on improving student learning through the use of brief web-based questions
- Can meet students' actual learning needs
- Delivered before or during a teaching session
- Responses reviewed by instructor, used to develop activities to address gaps
- Allow instructors to gather information quickly about concept/ understanding
- Real time feedback – teacher and student





"I appreciate the text, Kate, but next time you can just raise your hand."



WHY JITT?



- Improves learning
- Increases teaching efficiency/ effectiveness
- Incorporates research-based knowledge about effective teaching
- Improves preparation for class (teacher, student)
- Motivates learners
- Promotes continual formative assessment by both teachers and students
- Targets learning gaps through activities



JITT: [HTTP://PACHYDERM.CDL.EDU/ELIXR-STORIES/SERC-GEOSCIENCE/](http://pachyderm.cdl.edu/elixr-stories/serc-geoscience/)

- PUSH: push Qs to students
 - Twitter (2006)
 - Email (1993)
 - apps
- SHARE: relational
 - Wikis (2005)
 - Dropbox (2007)
 - Facebook (2004)
 - On-line articles/ videos
- Upfront needs assessment/ gaps
- Instant feedback



MORE THAN A LECTURE...



I AM GOING TRY SOMETHING I LEARNED ABOUT TODAY...

1. Definitely
2. Possibly
3. Maybe, maybe not
4. No way
5. Why change?
6. Already knew about all of this.



