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The Flipped Classroom:

Shifting the Paradigm from Instruction to Learning

October, 2014

EMBA Council Conference

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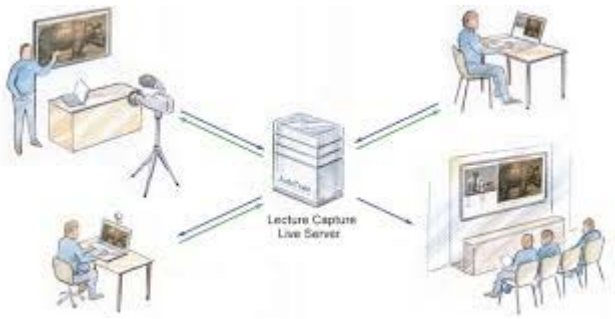
Converging Trends

- Technological innovation has made it easier to distribute lectures



- Large institutions find it makes of faculty time more productive

- Plentiful sources of information means transmission is not as important assimilation

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US Higher Education Trends

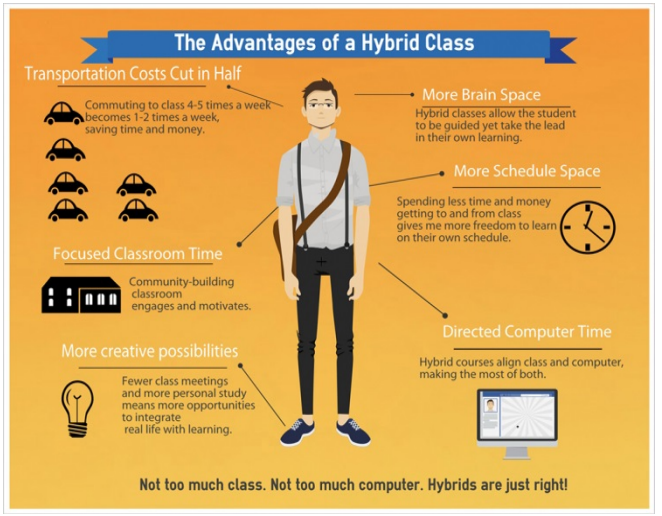
Focus

Teaching and learning models

Innovation

Blended, adaptive and interactive learning most promising source

Hybrid Learning



Source: Chronicle of Higher Education, Attitudes on Innovation, 2013

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Flipped Classroom Myths

- It relies mostly on technology
- It reduces the importance of faculty
- It's more time intensive for faculty
- It lessens learning outcomes

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Flipped Classroom Defined

Pedagogical model *in which the typical lecture and homework elements of a class are reversed.*

Form of blended learning *where a student is first exposed to new material outside of class and in class, time is used to apply the material in the form of problem solving and discussion.*

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Foundations of Good Teaching

- Who are the students?
- What do they need to know, to feel, or to be able to do as a result of this course or experience?*
- Where, when, and with what resources will students be learning?

- *Ties in with AACSB Assessment of Learning requirement to define learning outcomes.*

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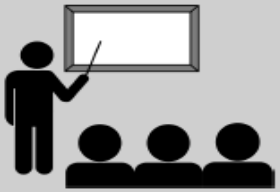
OLD (Before the Flip)		NEW (After the Flip)
 Students read over materials	BEFORE CLASS	 Students complete interactive learning module.
 Students listen to a lecture.	DURING CLASS	 Students practice applying key concepts with feedback.
 Students attempt the homework.	AFTER CLASS	 Students check understanding and extend learning to more complex tasks.

Typical Traditional Classroom Example

Before Class

Faculty prepare

- Develops content for lecture
- Assigns homework

Students prepare

- Read chapters or articles
- Submit homework

During Class

Faculty deliver

- Lecturers and presents information

Students absorb

- Listen and take notes

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Typical Flipped Classroom Example

Before Class

Students interact

- Watch video, listen to pre-recorded lecture, read articles, contemplate questions that access prior knowledge
- Reflect on what they learn and post questions they have

Faculty react

- Sorts through student's questions
- Develops class material and scenarios to focus on what is not understood

During Class

Faculty interact

- Uses Socratic method of teaching posing questions and problems

Students react

- Respond individually or work together to answer or solve a problem

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Paradigm Shift

Instruction  Learning

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Instruction vs Learning

	Purpose	Roles	Structures	Criteria
Instruction (institution-focused)	Deliver content	Lecturer Has knowledge and gives it Impartial of student characteristics	Schedule dictates content Attendance on demand Live delivery in person	Enrollment Revenue Quality of instruction
Learning (student-focused)	Elicit exploration	Facilitator Designer of learning experience Responsive to student needs at individual and in groups	Needs dictate content Instruction on demand Delivery fits student's schedule	Quality of students Learning

Paraphrasing the Flipping-relevant bits of Barr & Tagg (1995)

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Flip: Key Principles

- Active learning
- Student centered

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Active Learning

Instructional strategies that involve students in **doing things** and **thinking about the things** that they are doing

Tell me and I'll listen.
Show me and I'll understand.
Involve me and I'll learn.

Teton Lakota Indians

(Bonwell & Eison, 1991)

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Active Learning Strategies

- Action learning
- Case-based learning
- Peer Instruction
- Project-based learning
- Team-based learning

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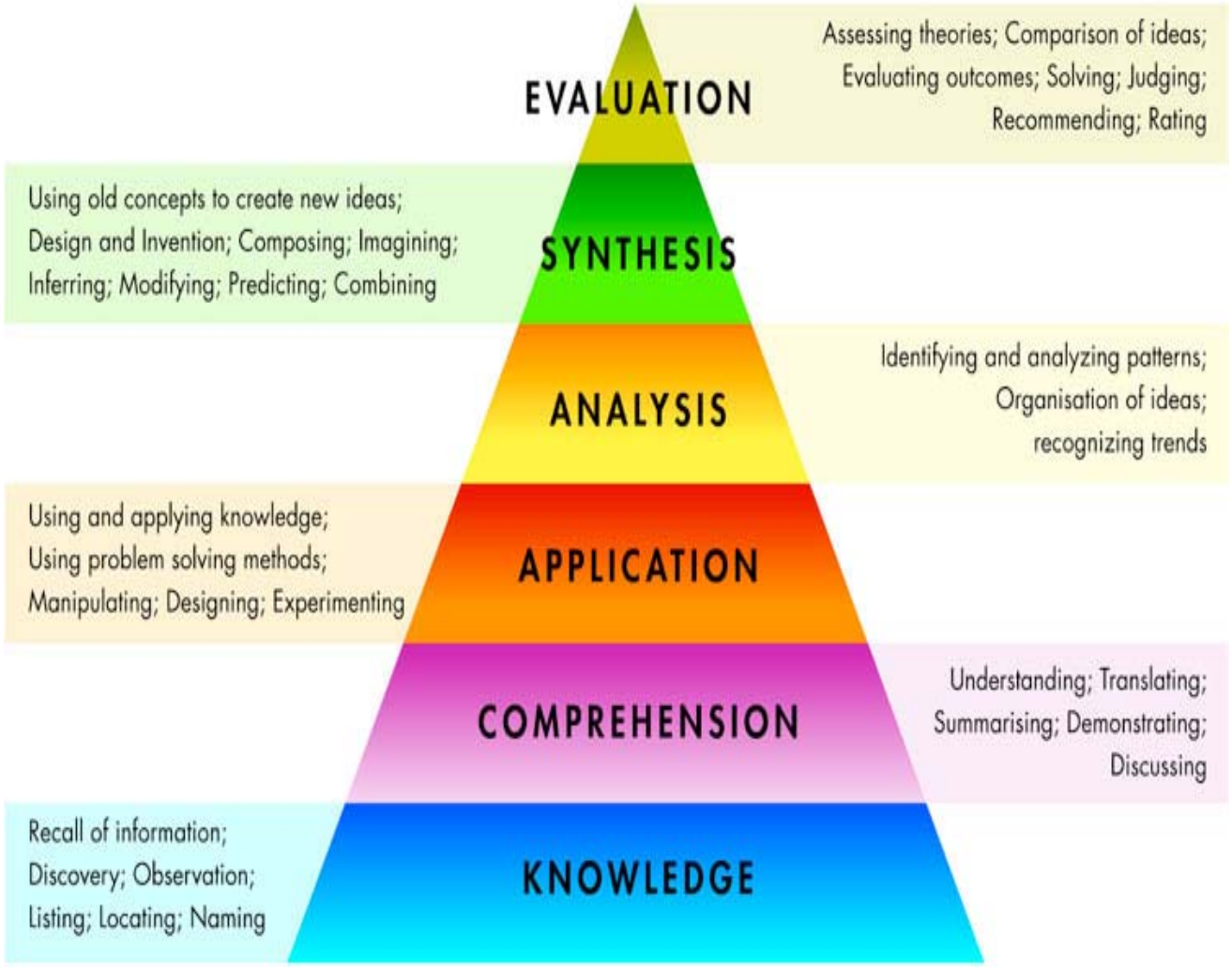
BLOOMS TAXONOMY



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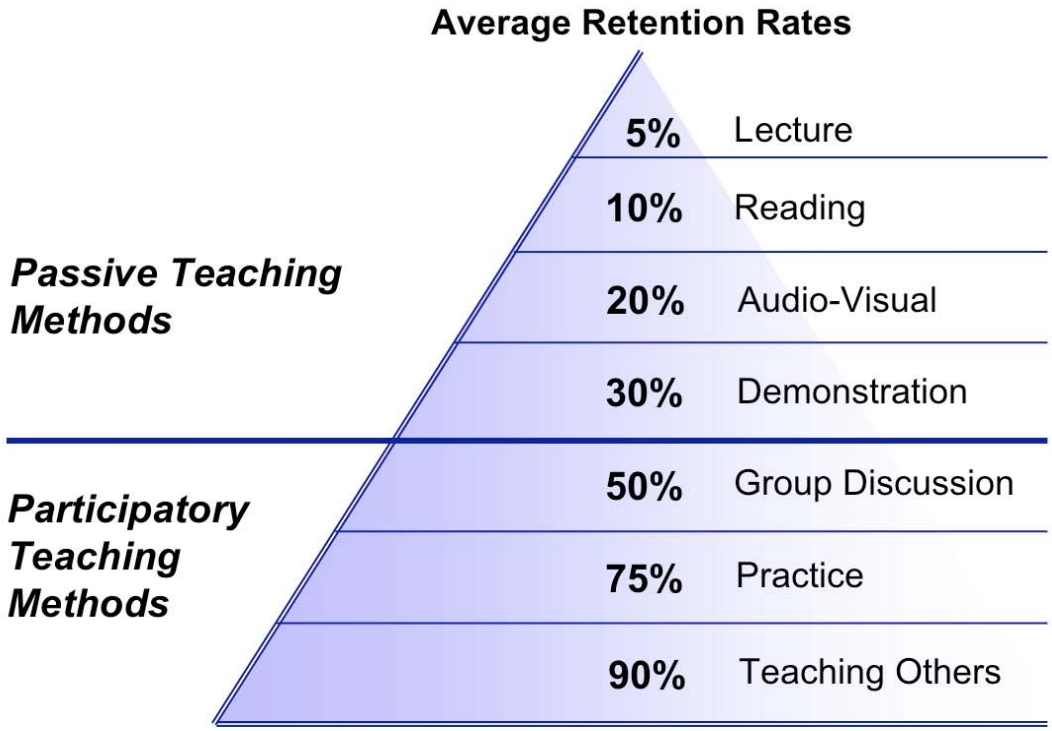
The Learning Pyramid*



*Adapted from National Training Laboratories. Bethel, Maine

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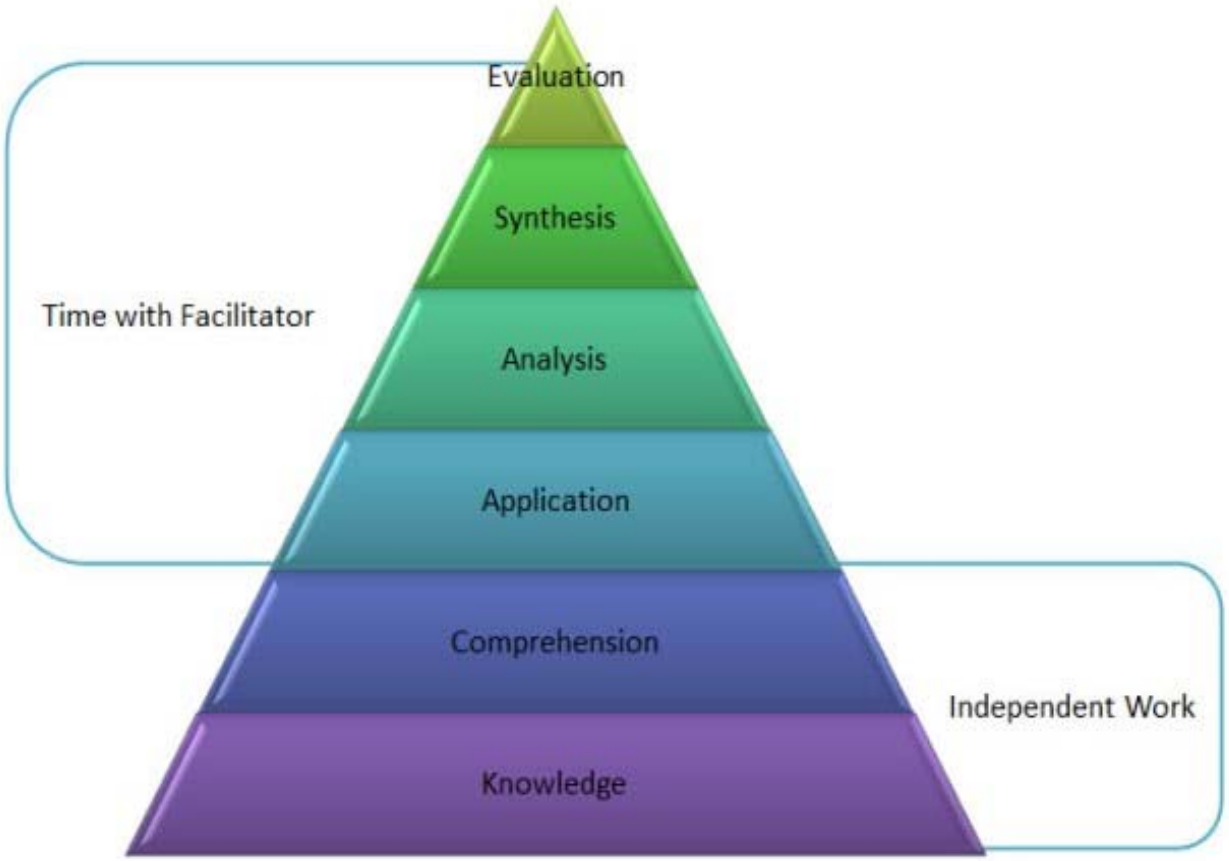
Bloom and the Flip



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Flipped Classroom New Realities

- It relies mostly on ~~technology~~ **LEARNING**
- It ~~reduces~~ **AMPLIFIES** the importance of faculty
- It's more time intensive for faculty **UPFRONT**
- It ~~lessens~~ ENHANCES learning outcomes

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