

Introduction to the Inverted Classroom

<http://bit.ly/13IHBro>

How Students Learn

- **Acquisition**



- Basic facts and procedures

- **Assimilation**



- Applied problem solving, critical thinking

Traditional Class Format

Class Time

Lecture
Quizzes
Exams

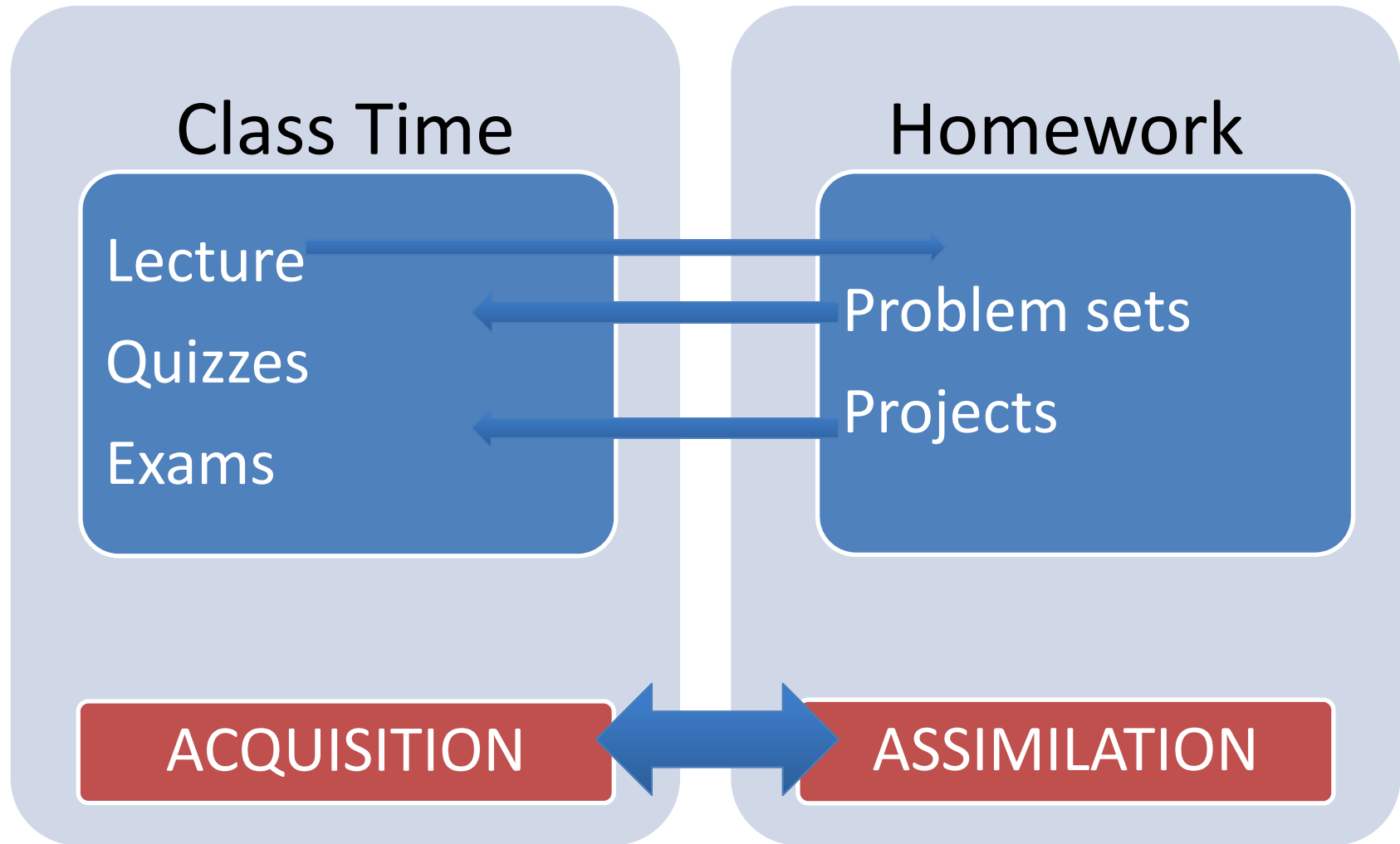
ACQUISITION

Homework

Problem sets
Projects

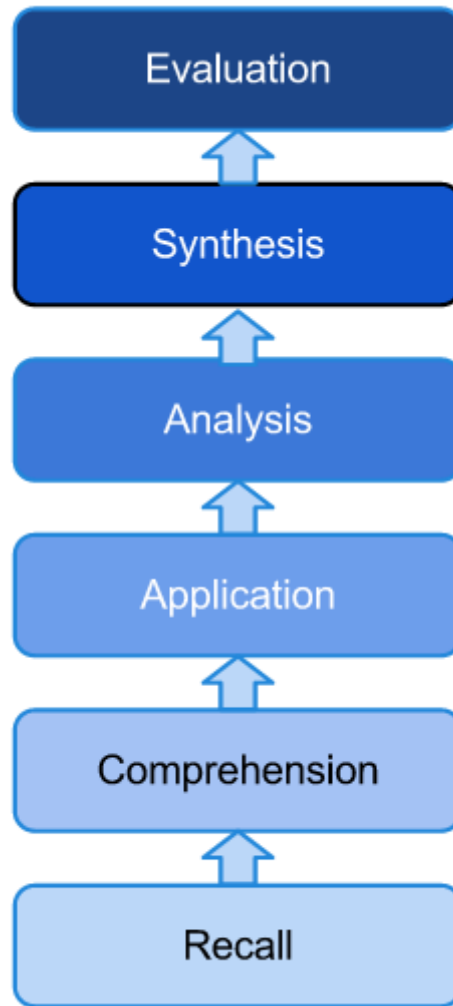
ASSIMILATION

Flipped Class Format



Free up class time for more active learning

Bloom's Taxonomy



Material Creation

- Realistic expectations are key
 - Find low cost options
- Flipping doesn't have to be all or nothing
- Look for existing resources you can leverage



How will you spend class time?

- Labs/Projects (pair programming)
- Peer-led instruction
- Guest speakers/Field trips
- Student presentations/debates
- Student demos

Some guiding principles

1. Don't re-hash homework material
 - Hold students accountable
2. Use active learning to engage students
3. Think about what is do-able with staffing levels that you have
 - Group/pair students to help with this

Activity – In-Class Brainstorm

- Work in groups

SIGCSE Inverted Classroom Workshop

Worksheet for Developing In-Class Activities

Use this worksheet to help brainstorm the in-class portion of an inverted classroom activity

Course you are designing the activity for	
Topic	
How do you typically cover this topic? What kinds of assignments are students typically given related to this topic?	
Why did you choose this	