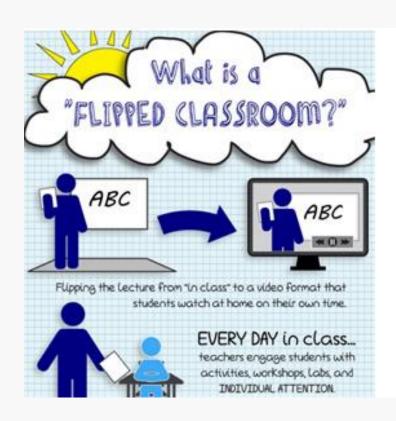
翻转课堂本土化过程中存在的问题和解决策略

常州市教育科学研究院 蒯超英 2017年1月4日 Melboune, Australia



分享的主要内容

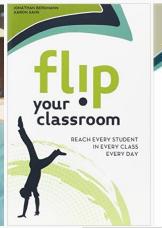


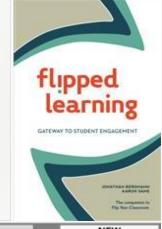
- 1.翻转课堂的缘起和其原创者
- 2.翻转课堂"翻转"了什么?
- 3.本土化中的问题和解决策略
- 4.提升翻转课堂有效性的建议

1.1 起源于美国山区高中的翻转课堂













FLIPPED CLASSROOM MODEL

Outside-of-class

Components traditionally delivered in-class-such as lectures-are delivered outside-of-class via web-based materials like:

- Videos
- · Demonstrations and tutorials
- Simulations and games

BENEFIT

Provides faculty with more time in-class to work with individual students and allows students to master content at their own pace

In-class

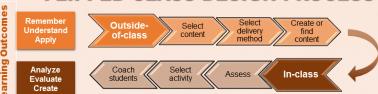
In-class time is used for deeper engagement with content, while the instructor provides guidance, through: · Collaborative projects

- · Individual and group problem-
- · Peer-based learning activities





FLIPPED CLASS DESIGN PROCESS



1.2 翻转课堂的原创者:Aaron and Bergman









Curriculum Development Course at a Glance Planning for 6th Grade Science



Colorado 21st Century Skills



Critical Thinking and Reasoning: Thinking Deeply, Thinking Differently

Information Literacy: Untongling the Web

Collaboration: Working Together, Learning

Self-Direction: Own Your Learning

Invention: Creating Solutions

Reading & Writing Standards for Literacy in Science and Technical Subjects 6 - 12

Reading Standards

- Key Ideas & Details
- Craft And Structure
- Integration of Knowledge and Ideas
- · Range of Reading and Levels of Text Complexity

Writing Standards

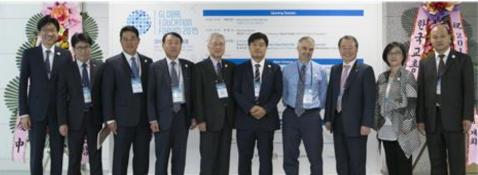
- Text Types & Purposes
- Production and Distribution of Writing
- Research to Construct and Present Knowledge
- · Range of Writing

Unit Titles	Length of Unit/Contact Hours	Unit Number/Sequence
Changing Environments	4-6 weeks	1
Water	4-6 weeks	2
Building Blocks of Life	4-6 weeks	3
Environmental Systems	4-6 weeks	4

1.3 Aaron and Bergman 目前在做什么?





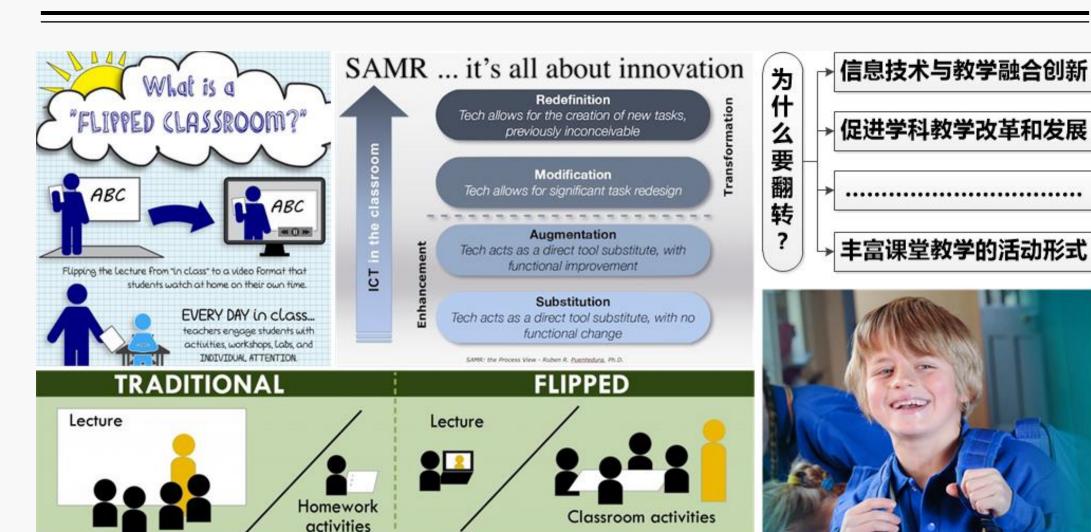


The Gift of Identity

Ø 19 DEC 2016 ▲ JON BERGMANN □ BLOG, FLIPCLASS, STUDENT VOICE ○ 0

I fundamentally believe that people operate out of identity. They live their lives out of their deepest sense of self. I contrast identity with a list of "do's" and "don't's". Trying to motivate kids (students, or your own children) with a list of rules may lead to compliance, but not to lifelong success, Too often we discipline kids to modify their behavior instead of examining the root-cause of poor behavior. At their root, bad choices are a symptom of a broken belief system.

思考:我们为什么对翻转课堂有兴趣?



2.1 学校教学改革和发展的走向:个性化学习

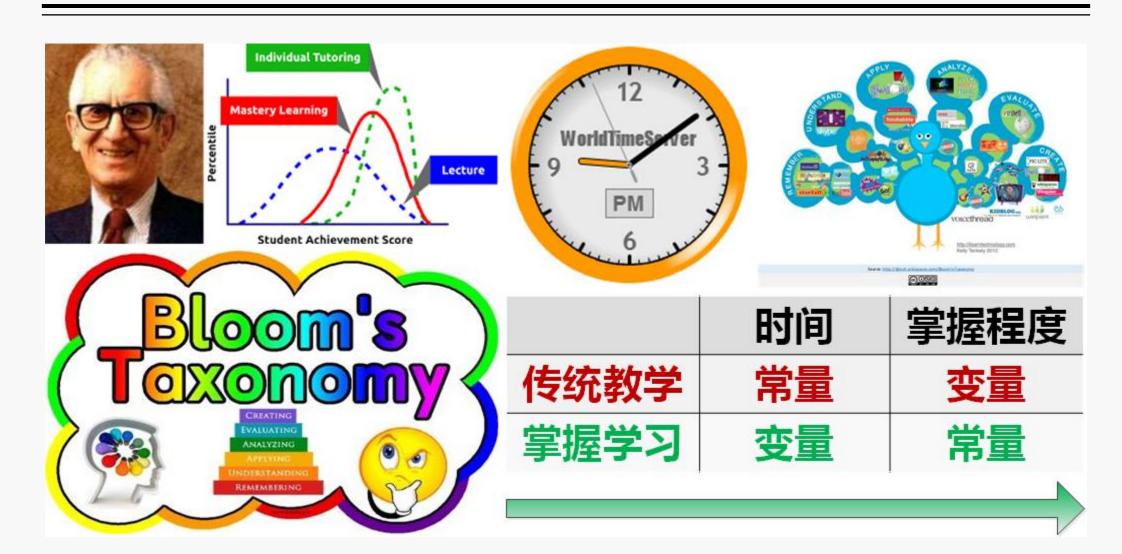




Personalization. Passion. Community. Safety. BRIDGE Our new strategic plan is designed to BRIDGE our strong tradition of excellence with the changing needs of our standents in the 21st century. Year 2 (2014-2015) Year 2 (2014-2015) Ruilding the Details Putting On Page 5 (2014-2017) Building Putting On with a modern new currenders in place and the Finishing Touches the Structure naturalist bracker traiting underway more focus is placed on developing students, because and We're implementing new programs, further Our focus to now on developing personalized meeting their individual social, emotional and the Foundation developing our staff, and introducing exciting ingratery plans for each student, which takes into **Our New Bridge** new apportunities for students, including scourt the industral rends, grads parame and strengths. We've working closely with parents to support students' exadence, social. Much work is being dote to decelop new, elementary world language and artiferige. form evaluating what is waiting well and The community is taking numeral puri our modern curriculum to propare students for an schools and becoming more treatment in refunding and supporting our students. cristment the naccesses of the previous fruit Students and families are beginning to one and



2.2 基于课堂教学的个性化学习理论:掌握学习



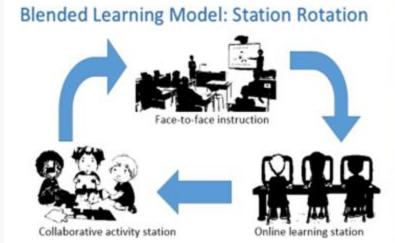
2.3 学生学习时间成了变量, 教学活动如何组织?

Classroom Classroom Settings Workshops Coaching Facilitated Working Groups Dinner Meeting Series Skill Burst Huddles

eLearning

- eLearning, mLearning
- Webinars, Webcasts
- & Podcasts
- Online Knowledge Libaries
- Virtual Classroom Environments (VLEs)
- Advanced Business Simulators
- Computer-alded Assessments or Surveys

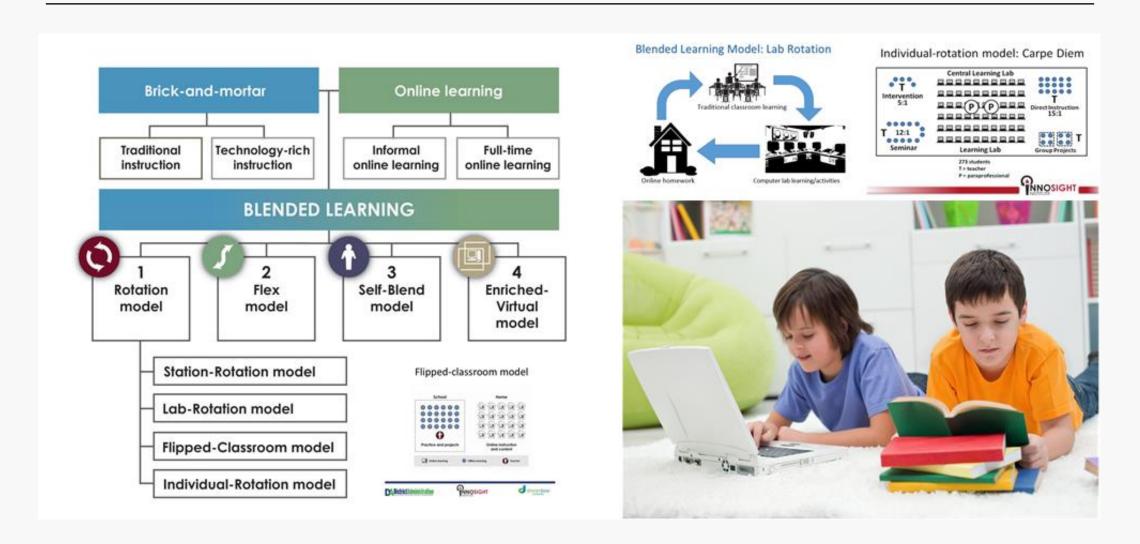








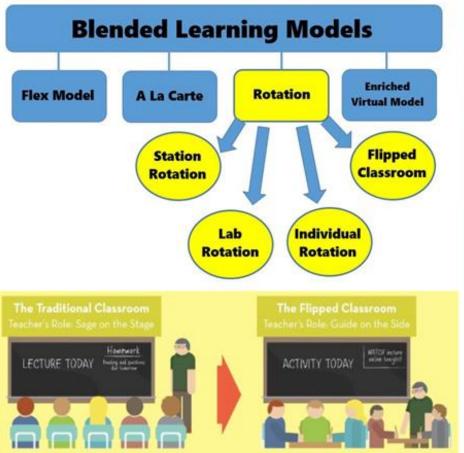
2.4 混合学习模型 (Blended Learning Models)



2.5 翻转课堂是混合学习的一种类型

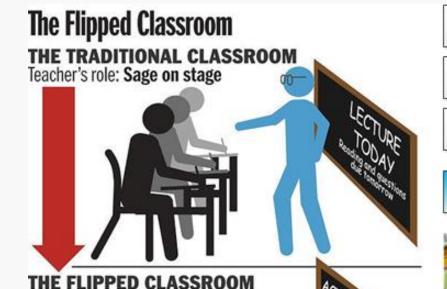








思考:翻转课堂"翻转"了什么?



- · Students watch lectures at home at their own pace, communicating with peers and teachers via online discussions
- · Concept engagement takes place in the classroom with the help of the instructor



班级授课制度

学生学习内容

学科教学目标

变

面向每个学生

目标分段实现

ICT在翻转课堂具体实施过程中究竟起什么作用?

变



SOURCE: Knewton

3.1 Aaron and Bergman是如何实施翻转课堂的

Properties of Matter

Density

Temperature

Volume

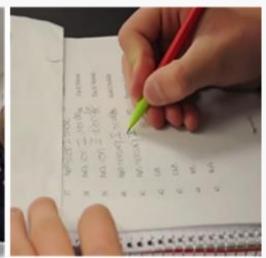
Mass

Speed

Color



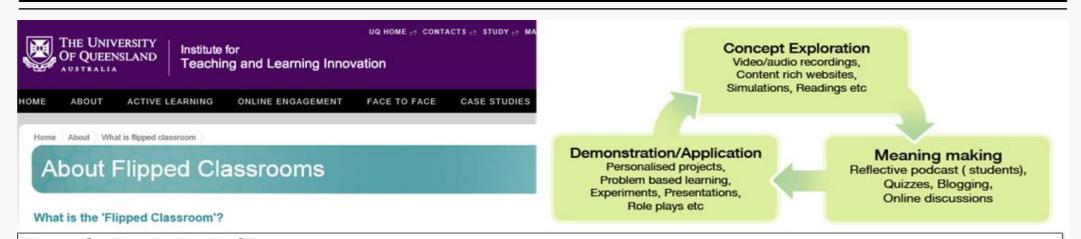




传统课堂		翻转课堂	
活动	时间	活动	时间
热身活动	5m	热身活动	5m
学生作业问题梳理	20m	教学视频学习检查	10m
讲授新知	30-40m	个性化学习,针对性教学	75m
个性化学习,针对性教学	20-35m		



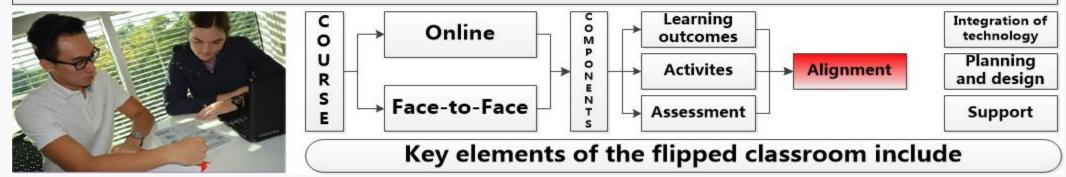
3.2 国外翻转课堂研究情况:以昆士兰大学为例



How do I get started?

The flipped classroom is a blended learning model that requires more than dividing a course into face-to-face and online components. Boud and Prosser (2002) recommend that effective blended learning environments take a learning design approach which looks at the learning goals and aligns them with teaching and learning activities and assessment. This ensures the integration and appropriate use of technology.

http://www.uq.edu.au/teach/flipped-classroom/what-is-fc.html



3.3 "成功"不能简单地"复制"



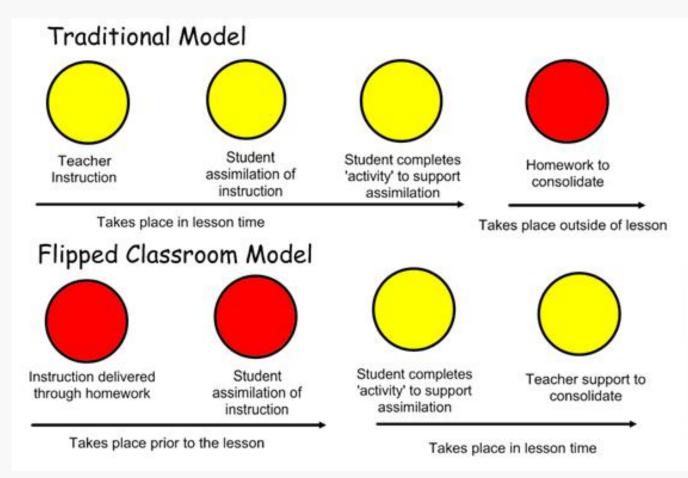








3.4 翻转课堂本土化需解决的问题:学习主动性



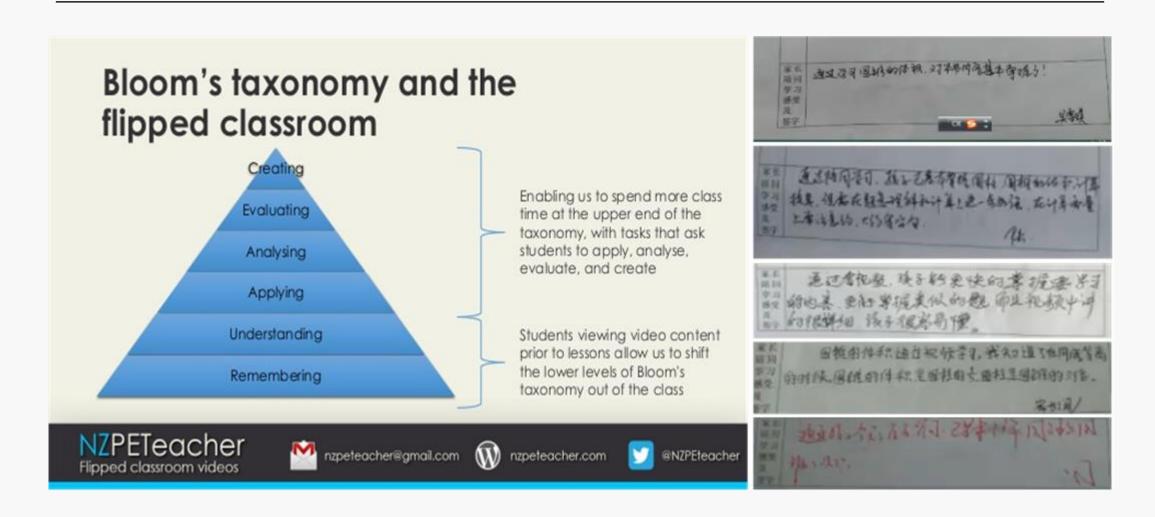
Knowledge Acquisition



Knowledge Construction

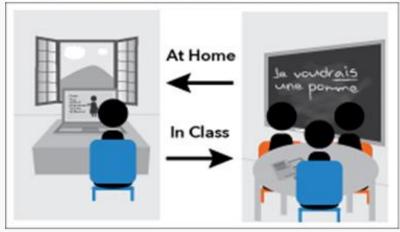


3.5 组织学生有效开展自主学习的策略:家长督促



3.6 组织学生有效开展自主学习的策略:合作探究

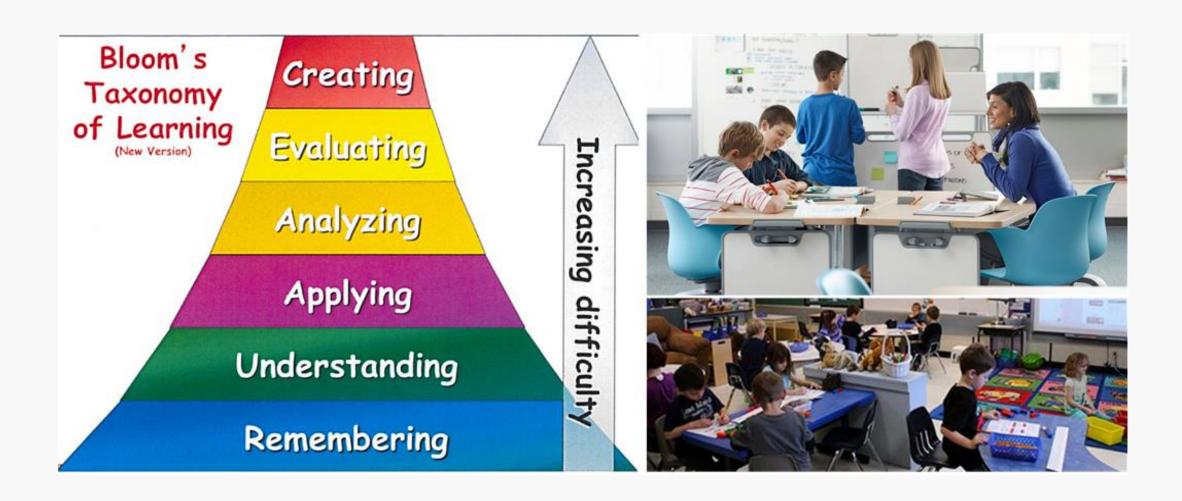




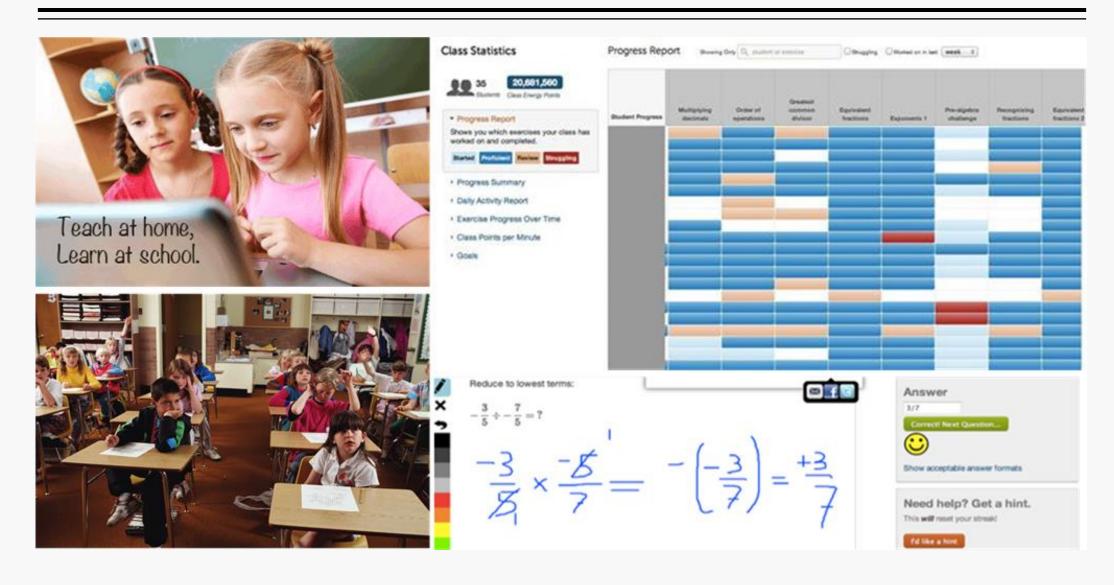


课 组长组织合作探究学习 前 教师组织学习组长开会

3.7 翻转课堂本土化需解决的问题:学习反馈



3.8 利用反馈系统了解学生自主学习情况



思考:翻转课堂和"预习+授课"的区别是什么?







Flipped Classroom

Before Class

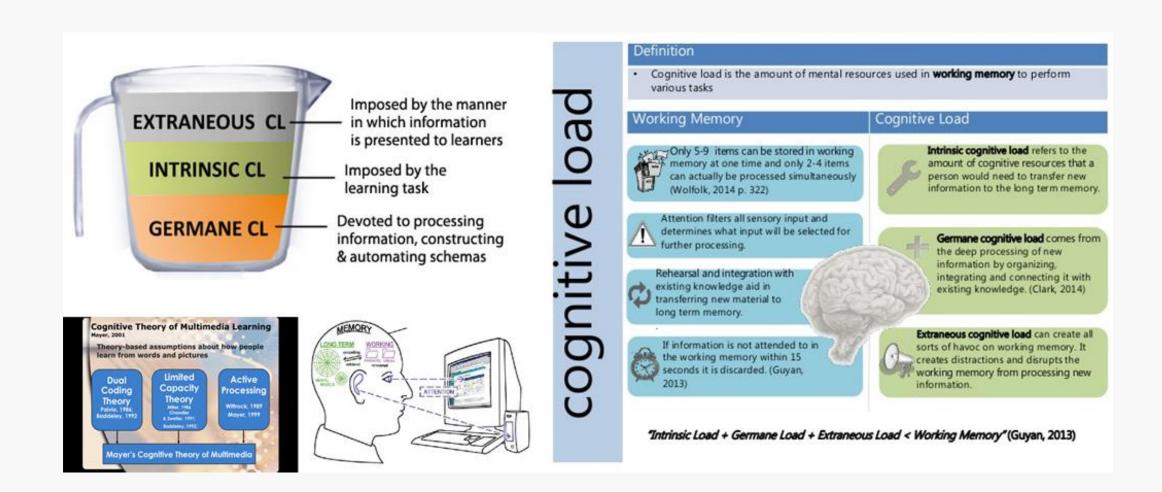
In the Class

After Class

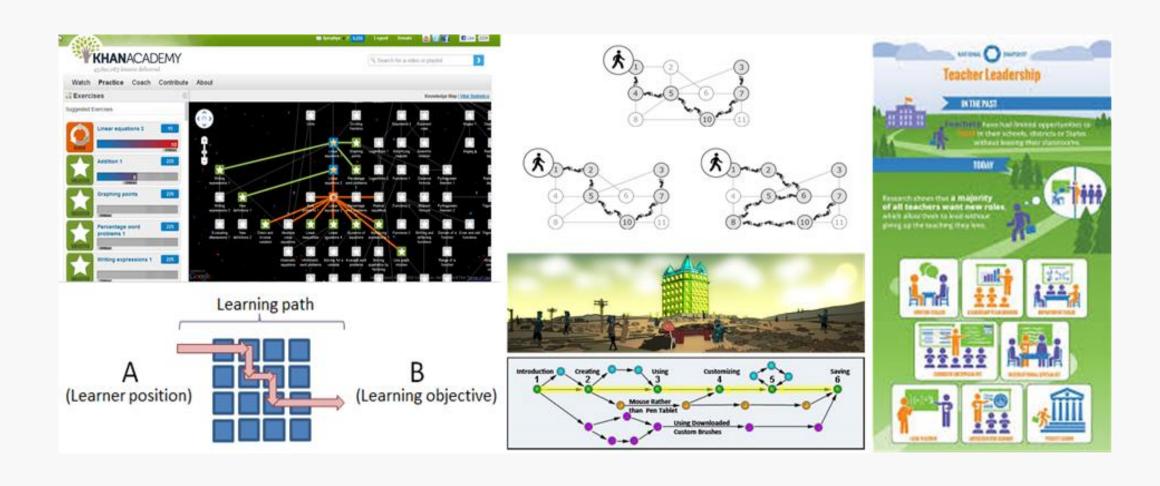
4.1 提升翻转课堂有效性建议:自主学习材料合适



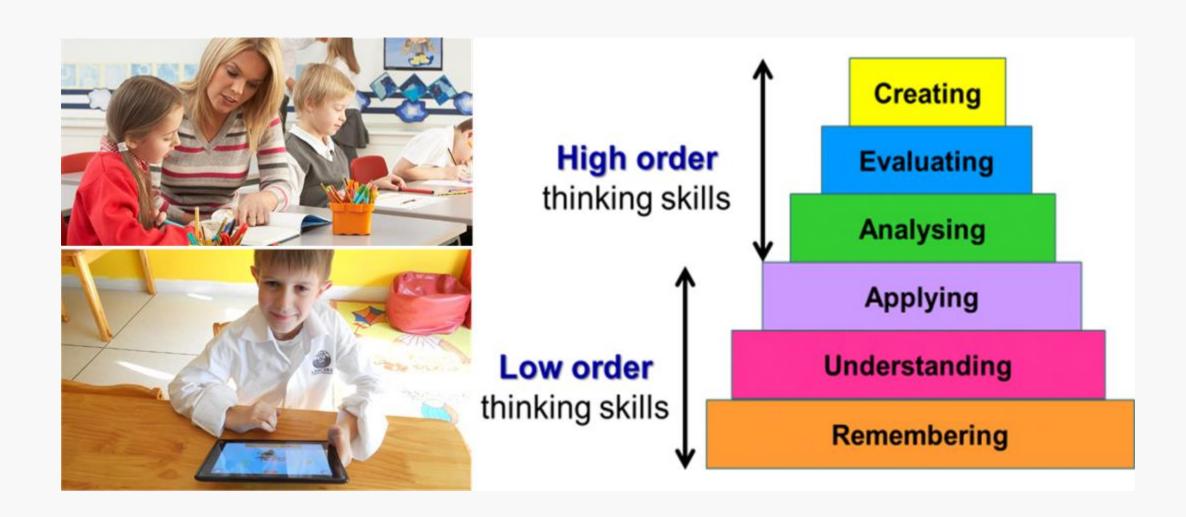
4.2 提升翻转课堂有效性建议:认知负荷平衡



4.3 提升翻转课堂有效性建议:指引学习路径



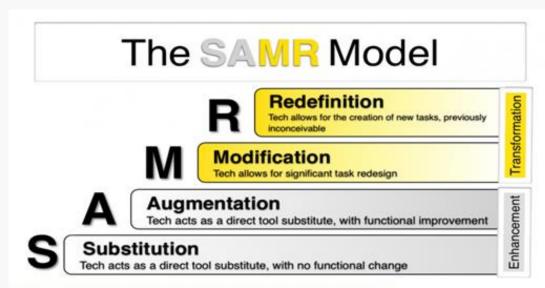
4.4 提升翻转课堂有效性建议:针对性教学



4.5 提升翻转课堂有效性建议:考虑一致性问题

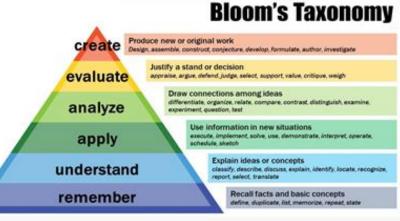


思考:实施翻转课堂需要怎么样的技术支持?











Thanks