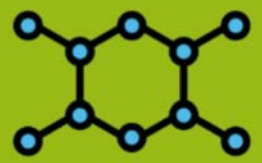
TEXAS ONRAMPS

Experience College Before College

OnRamps seeks to increase the number and diversity of students who engage in learning experiences aligned with the expectations of leading research universities.

Welcome to CH 301 and CH 104M

PRINCIPLES OF CHEMISTRY I



FUNDAMENTALS

Course Overview

Orientation

Syllabus

Fundamentals Learning Activities

QUANTUM MECHANICS: ATOMS AND PERIODICITY

Atoms Part 1 Learning Activities

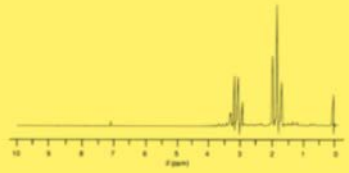
Atoms Part 2 Learning Activities

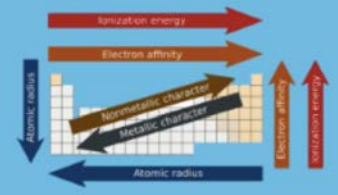
THE CHEMICAL BOND: STRUCTURE AND BONDING THEORY

Bonding Part 1 Learning Activities

Bonding Part 2 Learning Activities

INTRODUCTION TO CHEMICAL PRACTICES I





BAKING SODA STOICHIOMETRY TARGET LAB

Student Lab Manual

Lab Assessment #1

SPECTROSCOPY LAB

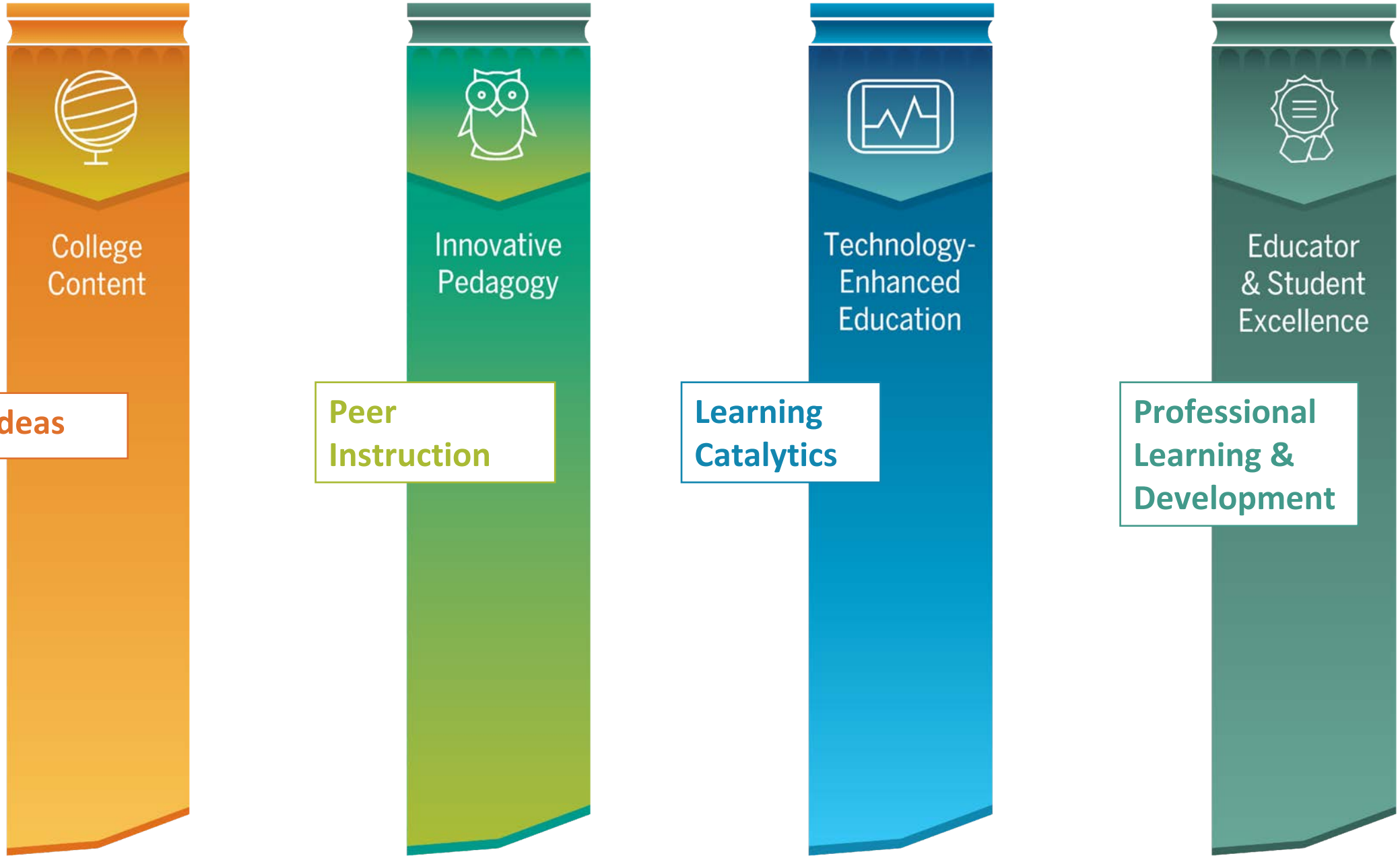
Student Lab Manual

Lab Assessment #2

PERIODICITY LAB

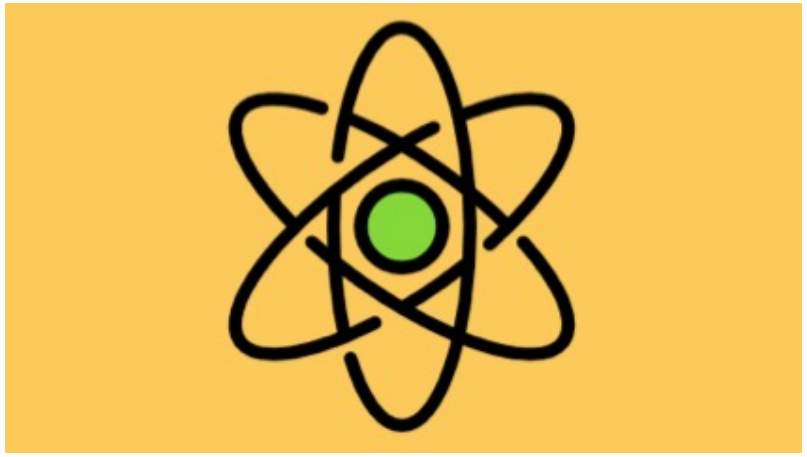
Student Lab Manual

Lab Assessment #3

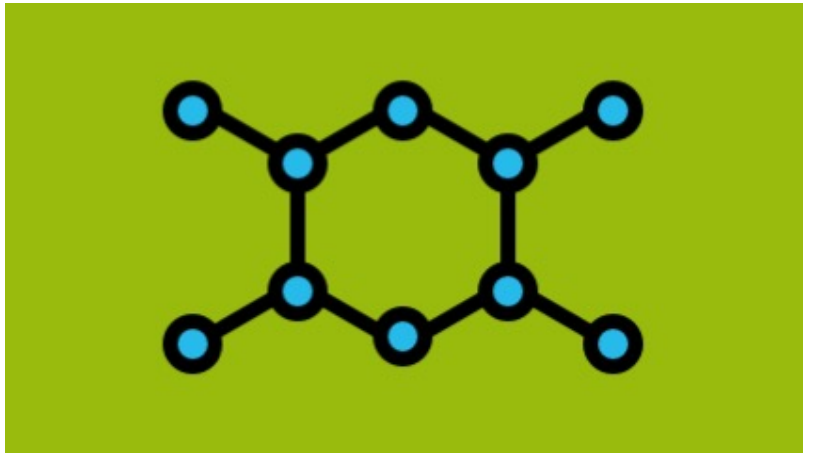

College Content
Big Ideas
Innovative Pedagogy
Peer Instruction
Technology-Enhanced Education
Learning Catalytics
Educator & Student Excellence
Professional Learning & Development

Big Ideas Shape CH 301 *College Content*

THE ATOM



CHEMICAL BONDING

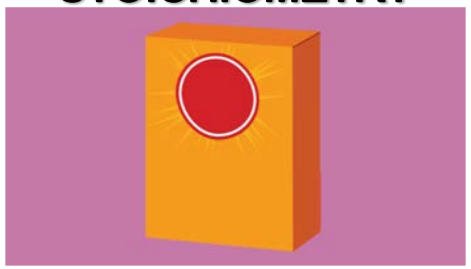


STATES OF MATTER

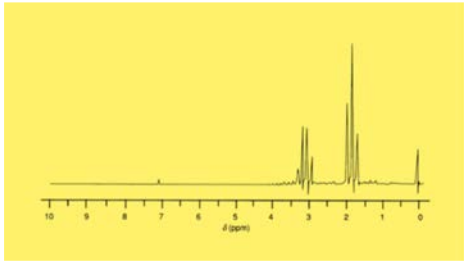
THERMODYNAMICS

Big Ideas Shape CH 104M *College Content*

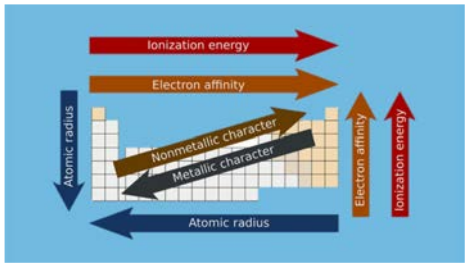
BAKING SODA STOICHIOMETRY



SPECTROSCOPY



PERIODICITY



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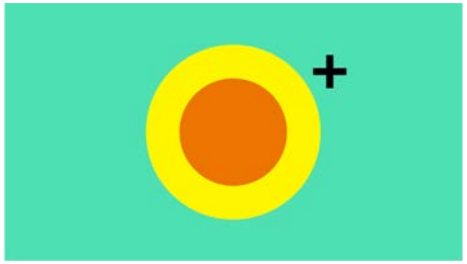
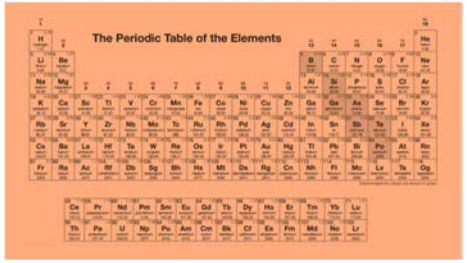
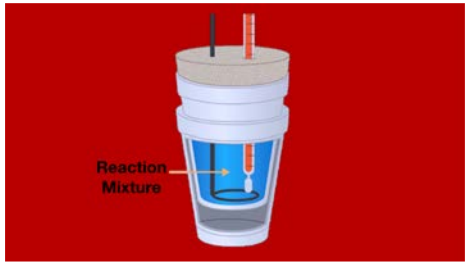


MOLAR VOLUME DETERMINATION OF A GAS



PAPER CHROMATOGRAPHY

COFFEE CUP CALORIMETRY



GIBBS FREE ENERGY DETERMINATION

Innovative Pedagogy

Key Features of
Peer Instruction:

- Pre-learning and collaborative work in dynamic teams
- In-class Readiness Test (Individual and Team)
- Frequent and Immediate Feedback
- Evidence-based consensus building

Technology-Enhanced Education

learning|catalytics™

Settings | Students | Teams | Gradebook | Share course | Send course | Delete course

Create module | Copy module from...

Search:

Module	Type	Date	Results
Unit 1: The Atom Part 1	Instructor-Led Synchronous		
Unit 1: The Atom Part 2	Instructor-Led Synchronous		
Unit 2: Bonding Part 1	Instructor-Led Synchronous		
Unit 2: Bonding Part 2	Instructor-Led Synchronous		
Unit 3: States of Matter Part 1	Instructor-Led Synchronous		
Unit 3: States of Matter Part 2	Instructor-Led Synchronous		
Unit 4: Thermodynamics Part 1	Instructor-Led Synchronous		
Unit 4: Thermodynamics Part 2	Instructor-Led Synchronous		

Technology-Enhanced Education

Download results | Attendance information | Messages | Delete data

Jump to ▼ 1 2 3 4

2. multiple choice

(Question Type: Ideal Gas Law)

A balloon filled with helium occupies 20.0 L at 1.50 atm and 25°C. How many moles of helium will there be in the balloon at STP?

A. 4.55 moles

B. 1.23 moles

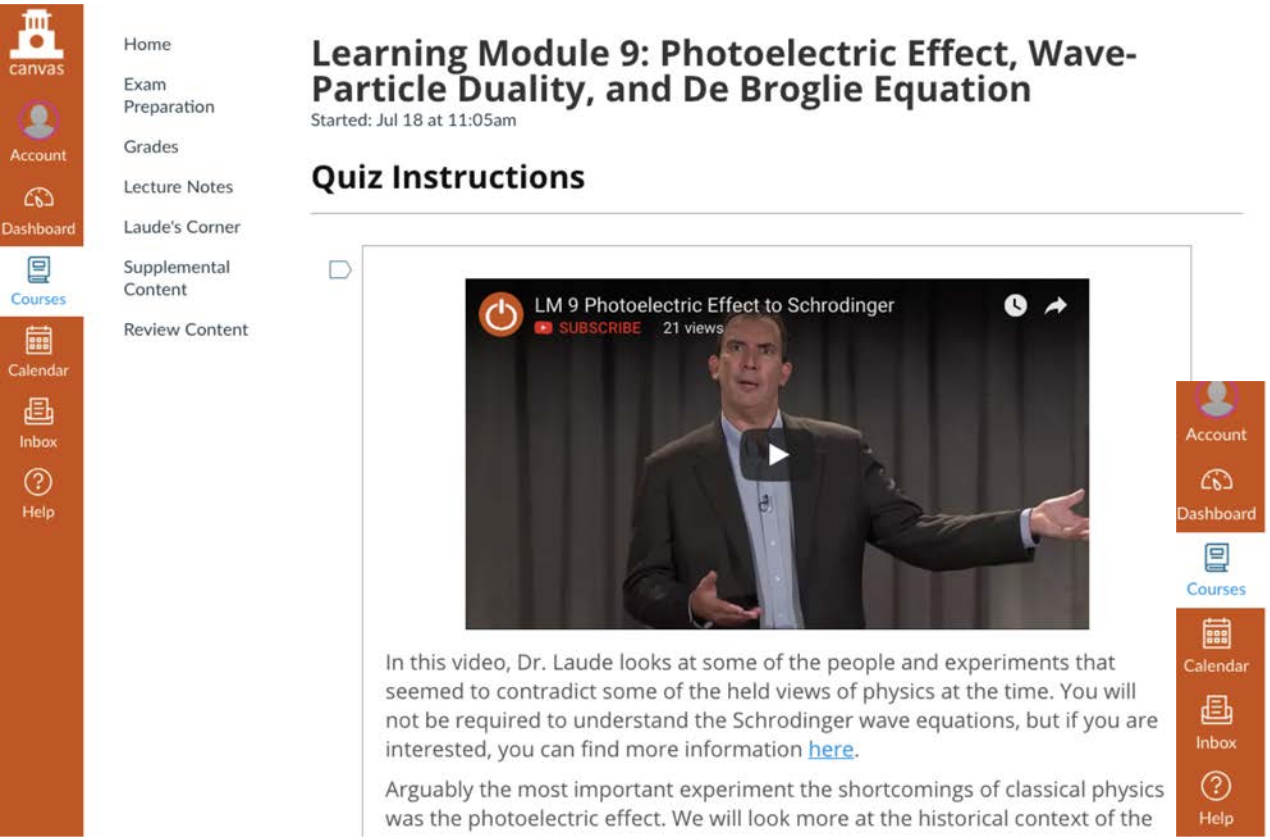
C. 0.0446 moles

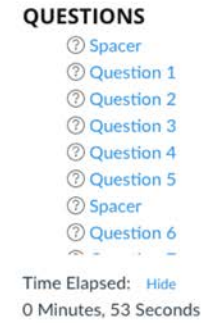
D. 22.4 moles

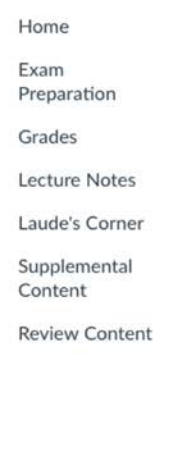
Round 1	Round 2
5 responses, 60% correct	5 responses, 100% correct
A. 0%	A. 0%
B. 60%	B. 100%
C. 40%	C. 0%
D. 0%	D. 0%

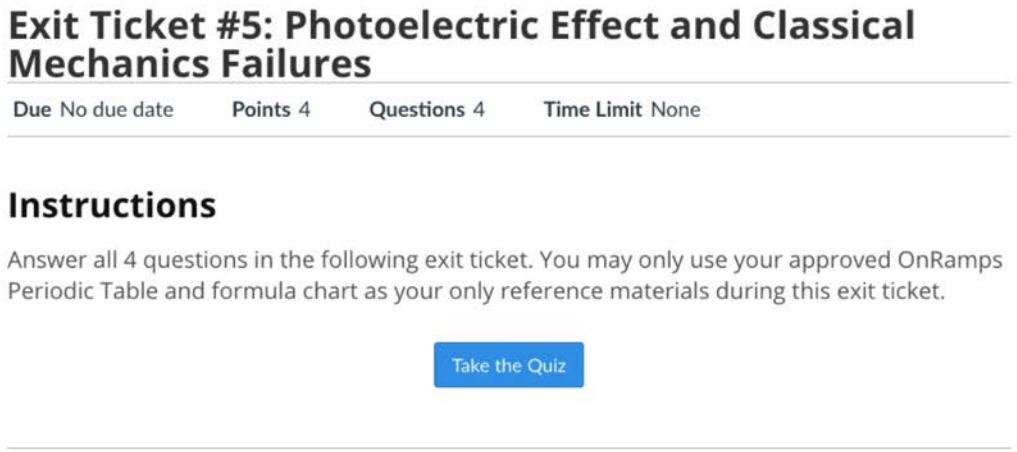
✔ 2 get it now
✖ 0 still don't get it

Flipped Classroom









Flipped Classroom

Key Features of
Flipped Classroom:

- Flexible Environment
  - ✓ It creates flexible spaces in which students choose when and where they learn.

- Learning Culture
  - ✓ This learning model deliberately shifts instruction to a learner-centered approach, where in-class time is dedicated to exploring topics in greater depth and creating rich learning opportunities.

- Intentional Content
  - ✓ Educators use Intentional Content to maximize classroom time in order to adopt methods of student-centered, active learning strategies, depending on grade level and subject matter.

Reference: Flipped Learning Network (FLN). (2014) The Four Pillars of F-L-I-P™

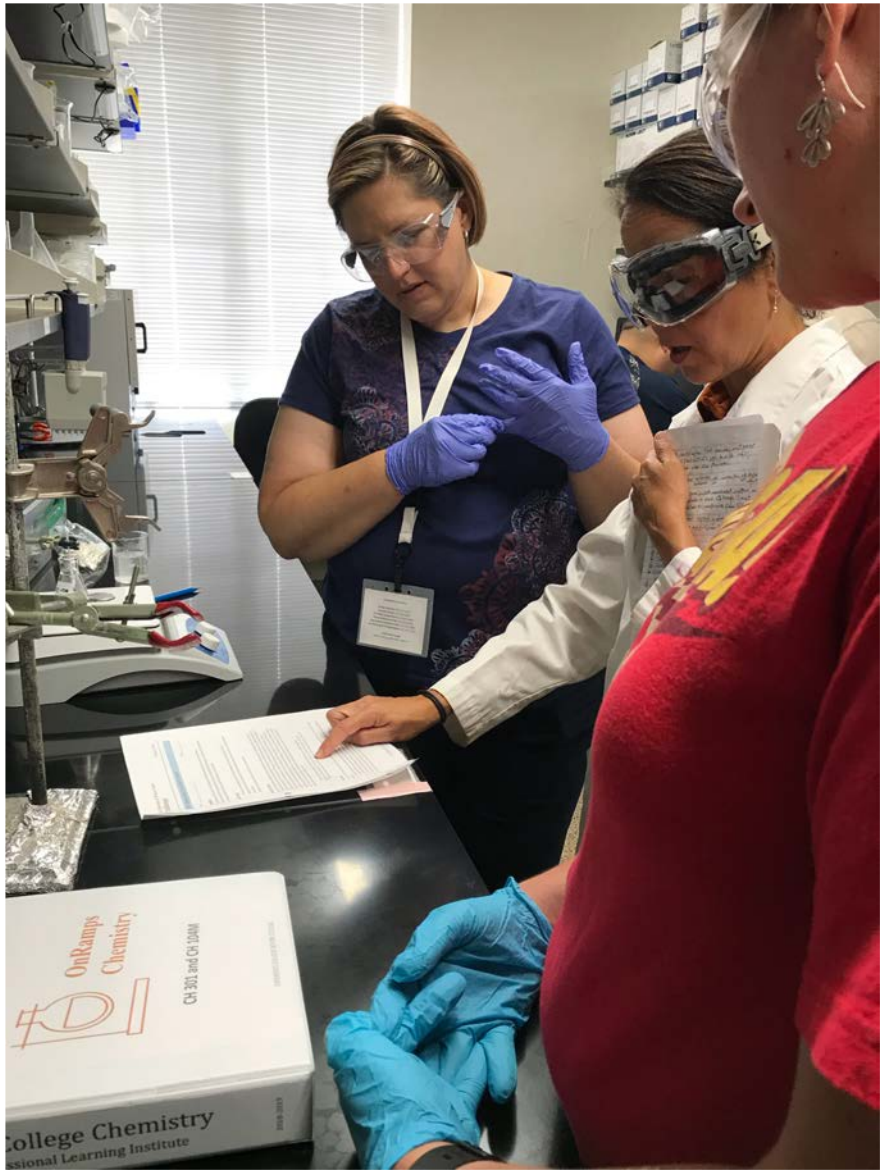
Flipped Classroom

Key Features of
Flipped Classroom:

- Professional Educator

  ✓ While professional educators take on less visibly prominent roles in a flipped classroom, they remain the essential ingredient to improve students instruction.

  ✓ Professional Educators are reflective in their practice, connect with each other to improve their instruction, accept constructive criticism, and tolerate controlled chaos in their classrooms.



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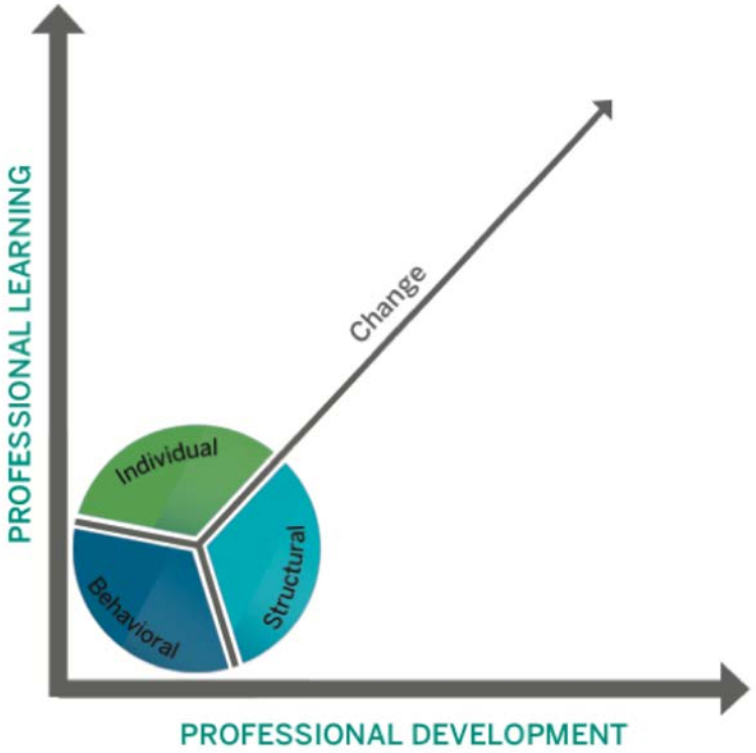
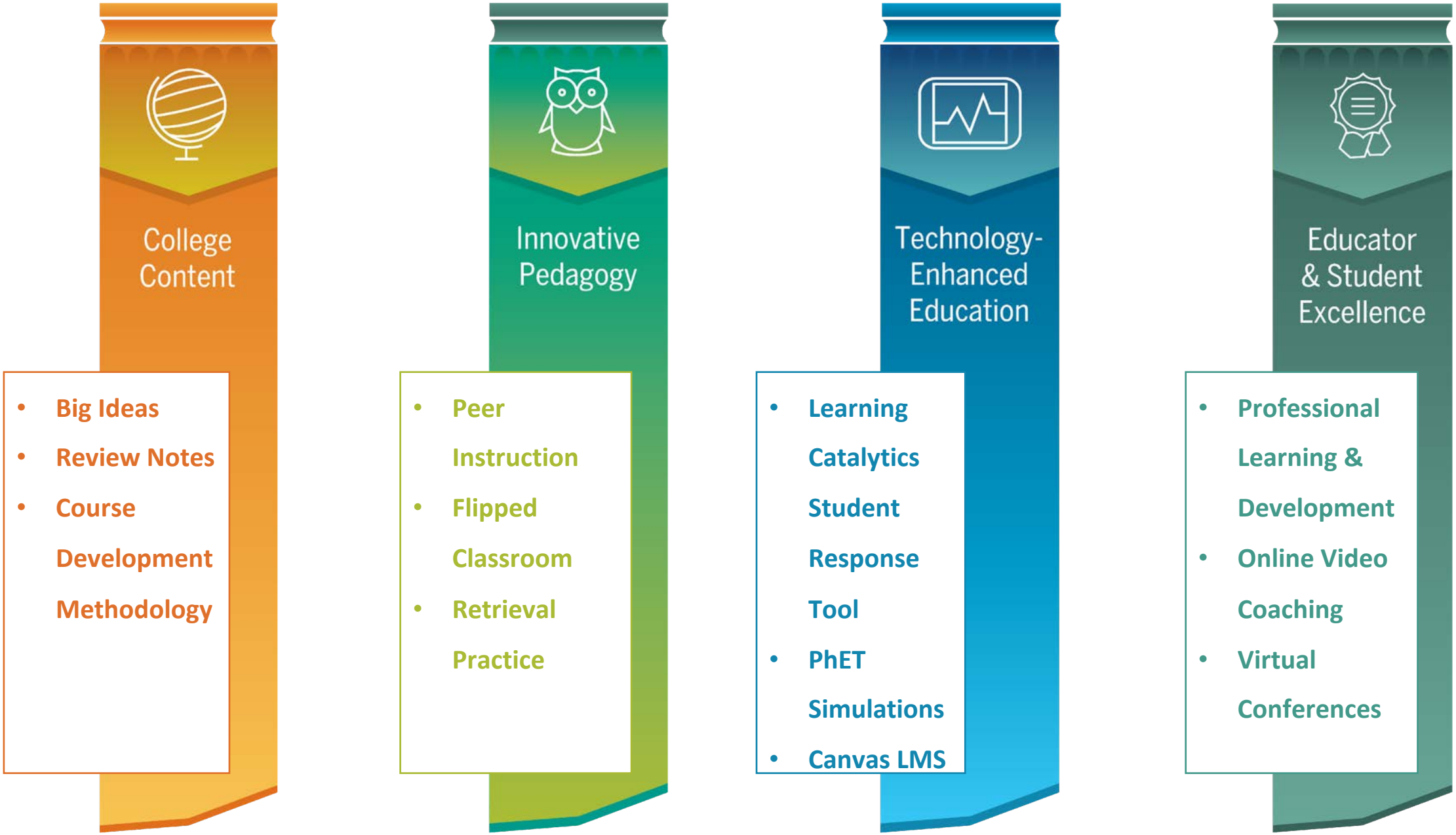
Educator Excellence
Professional Learning and Development




College Content
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Review Notes
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Flipped Classroom
Retrieval Practice
Technology-Enhanced Education
Learning Catalytics Student Response Tool
PhET Simulations
Canvas LMS
Educator & Student Excellence
Professional Learning & Development
Online Video Coaching
Virtual Conferences

Thank you!

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