Streamlining Workflow for Personalized Learning

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http://tinyurl.com/FETCstream -- Please use this link to complete a brief survey for this presentation, thank you!

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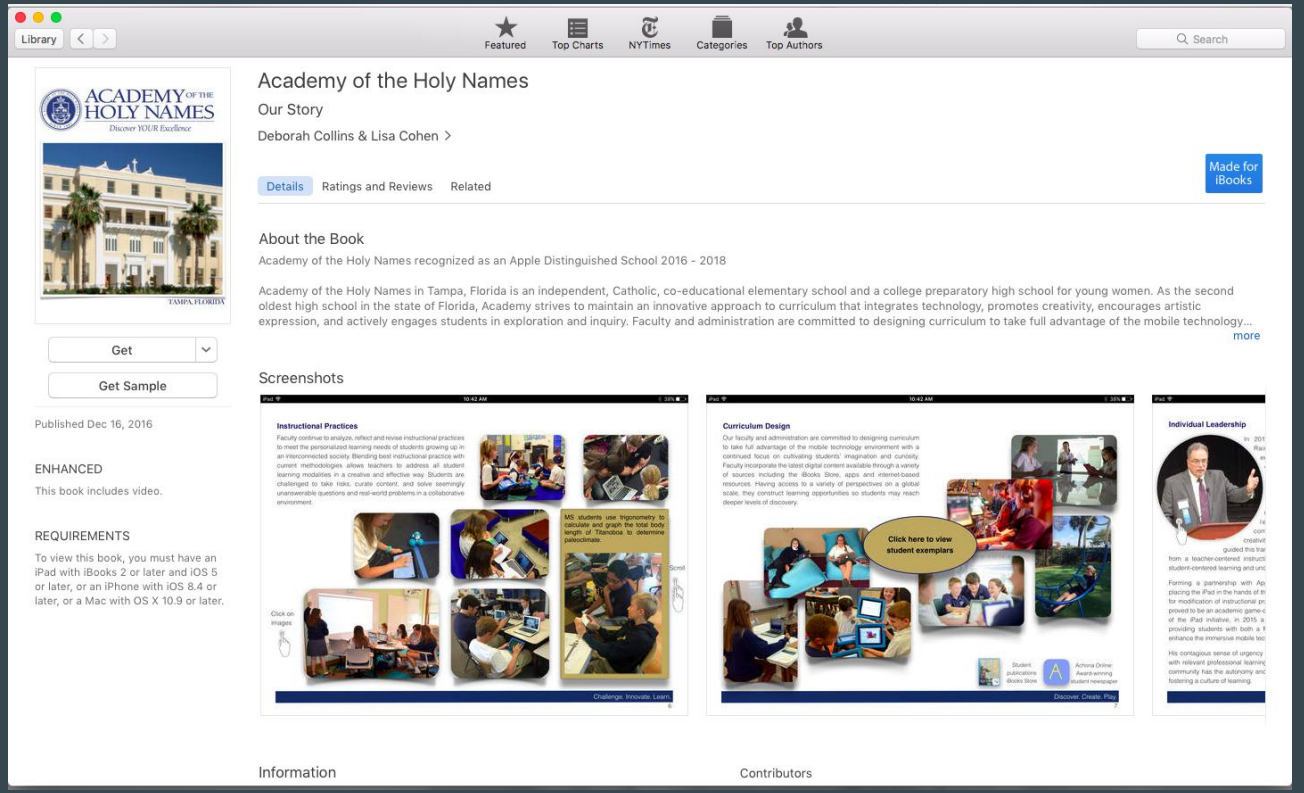
APPLE DISTINGUISHED SCHOOL



How can I create a classroom/curriculum where students are driving their own learning?

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- Enhancing classroom structure and organization
- Developing student accountability
- Streamlining and automating feedback
- The collaborative student-centered classroom

Enhancing Classroom Structure and Organization
The English Classroom

- The agenda matters!
  - If possible, have an essential thematic question
- Small activities
  - Helps to break up “lecture” time
- Google Classroom
  - Organizes student work

AGENDA: Tuesday, January 9

- Visit from Mrs. Swiger
- Thesis/Prompt discussion
- “Tune” Tuesday
- “We Real Cool”
- Review “Holy Sonnet #9”
- Sentence practice

**Have your BINDERS and your PERRINE’S at your desk right now, ready to go.

FOR SOME CLASSES - ROUTINE IS HELPFUL

- Newspaper Journalism
  - Google Forms/Google Classroom for story pitches and writing copy

Enhancing Classroom Structure and Organization
The Mathematics Classroom

- Warm Up
  - Always on the board at the beginning of class. Come in and get started.
- Collaborative Activities
  - Either a review or preview of other course content.
- Mini Lessons
  - Optional for students who need more than “flipped” learning.
- Practice Time
  - Work alone, with a partner, in a small group to demonstrate skill mastery

- Use unit plan/Haiku page to develop student responsibility and time management

Algebra - Unit 6: Exponents and Radicals

Topics:
Simplifying expressions with exponents
Exponential functions
Simplifying expressions with radicals

Objectives:

I can simplify expressions with exponents.

I can graph exponential functions.

I can simplify radicals.

Essential Questions:

How can you represent numbers less than 1 using exponents?

How can you simplify expressions involving exponents?

What are the characteristics of exponential functions?

Mission and Expectations:

1. Student will be able to represent numbers using negative exponents.
2. Student will be able to use the rules for multiplying and dividing powers.
3. Students will define and use zero, negative, and rational exponents.

Must be completed before Mastery Test 6:

Required for all objectives:
- Pre-test
- Videos/Live Instruction
- MathSpace
- Interactive Notebook Pages

Choose one formative for each objective:
- Khan Academy
- Topic Quiz
- Teacher Conference
- Textbook assignment

Activities and Assessment:

Exponent Rule Exploration – Jan. 5/6
Math Mistakes – Jan. 9/10
Teamwork K – Jan 11/12
Teamwork L – Jan 13/14

Formative Assessment – before test

Test 6 – January 18-25
[request to test with at least 24 hours notice]

Resources:
http://padlet.com/mdubee1/algebra1

Unit 6 - Exponents

Objective	Videos/ Notebook page	Formative (Choose 1)	MathSpace	Date/Score	Sign off
I can simplify expressions with exponents		KA - Positive and negative exponents Using exponent rules to evaluate expressions Simplifying rational expressions with exponent properties Simplifying expressions with exponents Understanding fractional exponents Fractional exponents	Exponent Notation Multiplication Law I Division Law I Power of a Power Mixed Exponent Laws The Zero Exponent Product and Quotient with Negative Exponents Numerical Bases with Fractional Exponents (50)		
		Quiz 6A			
		Conference 6A			
I can graph exponential functions			Exponential graphs Simplifying exponential expressions		
		Quiz 6B			
		Conference 6B			
I can simplify radicals		KA - Simplify square roots Simplify square roots 2	Simplifying radicals Rationalizing the denominator		
		Quiz 6C			
		Conference 6C			

Developing Student Accountability

- Haiku (LMS)
  - Announcements
  - Assignments

- Google Classroom
  - Flipped Learning - share notes, videos, and other ancillary information ahead of time
  - In-class monitoring
  - Daily Agenda posted for missed work
  - Accurate and time-stamped evidence of each change

Streamlining and Automating Feedback

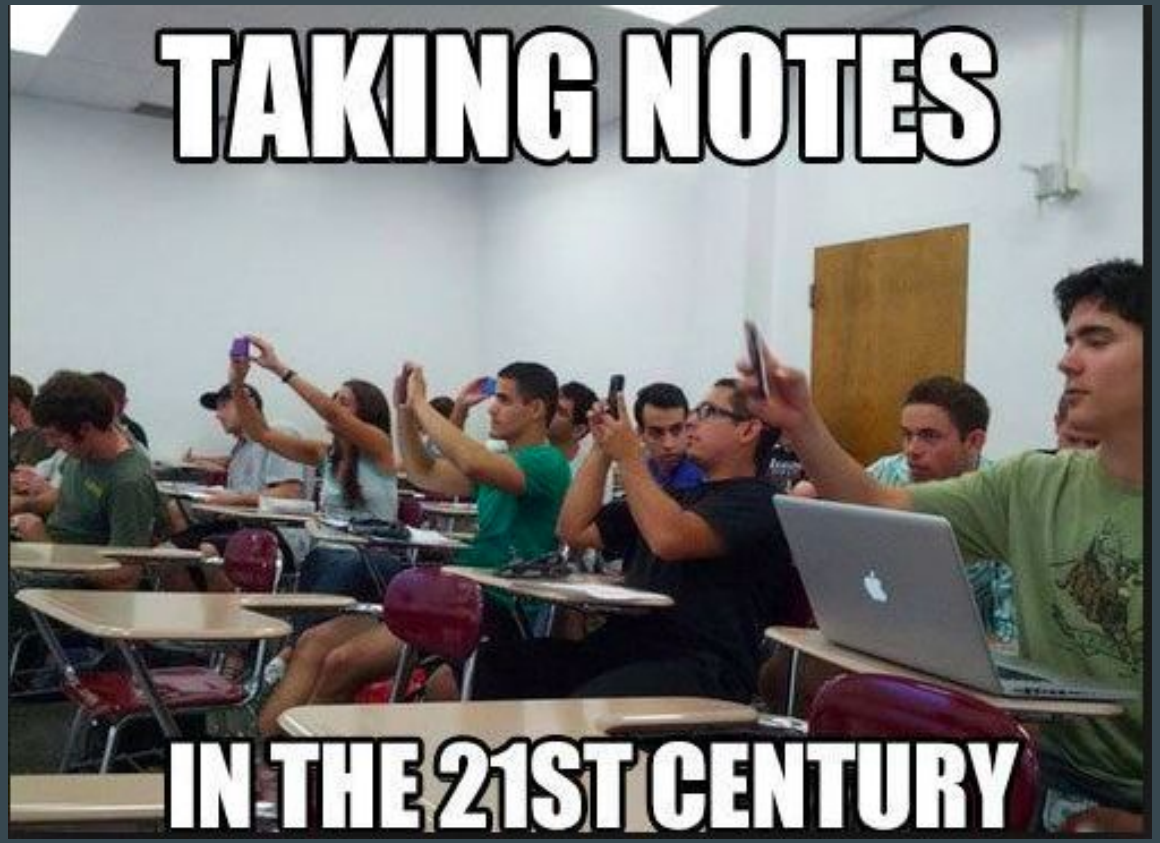
Immediate/Formative:

- Google Forms
- Padlet
- Nearpod
- Today's Meet
- MathSpace

Enduring/Summative:

- Doctopus* must be used with Chrome
- Goobrics*

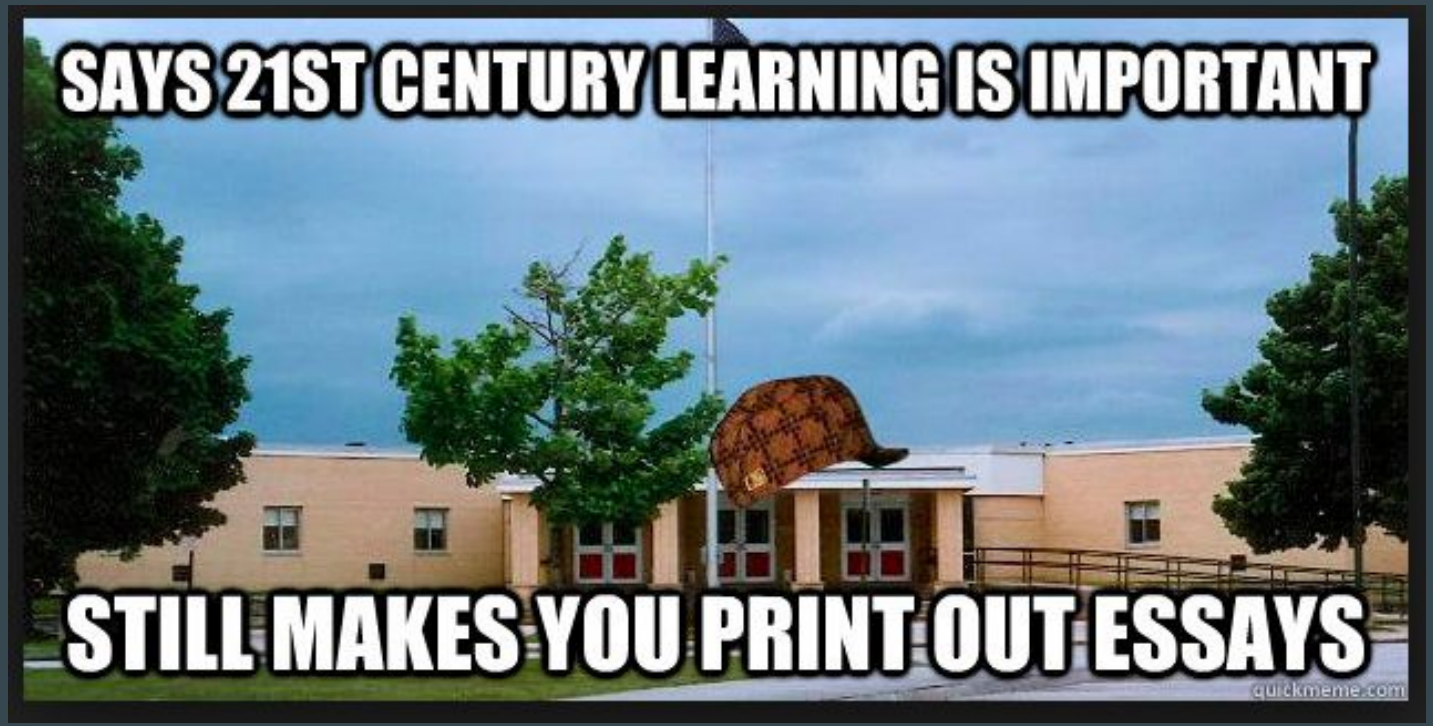
21st Century Learning: What Students Think it is



21st Century Learning: What Other Teachers Think it is

giphy.com

21st Century Learning: What Administrators Think it is



Creating a Collaborative Student-Centered Classroom

Take Aways

- Start with one thing - for example - one Google slide for all students to share
- Find a partner or seek to collaborate within your department
- Match the technology to your objective
- Ask for feedback (from peers and students)
- Keep exploring until you find something that works for you (platforms, peers, twitter/blogs, conferences)

Session Survey
fetc.org/survey

Please complete the session survey.

Our Session ID is EDC912.