

Live-online: A.L.I.V.E.

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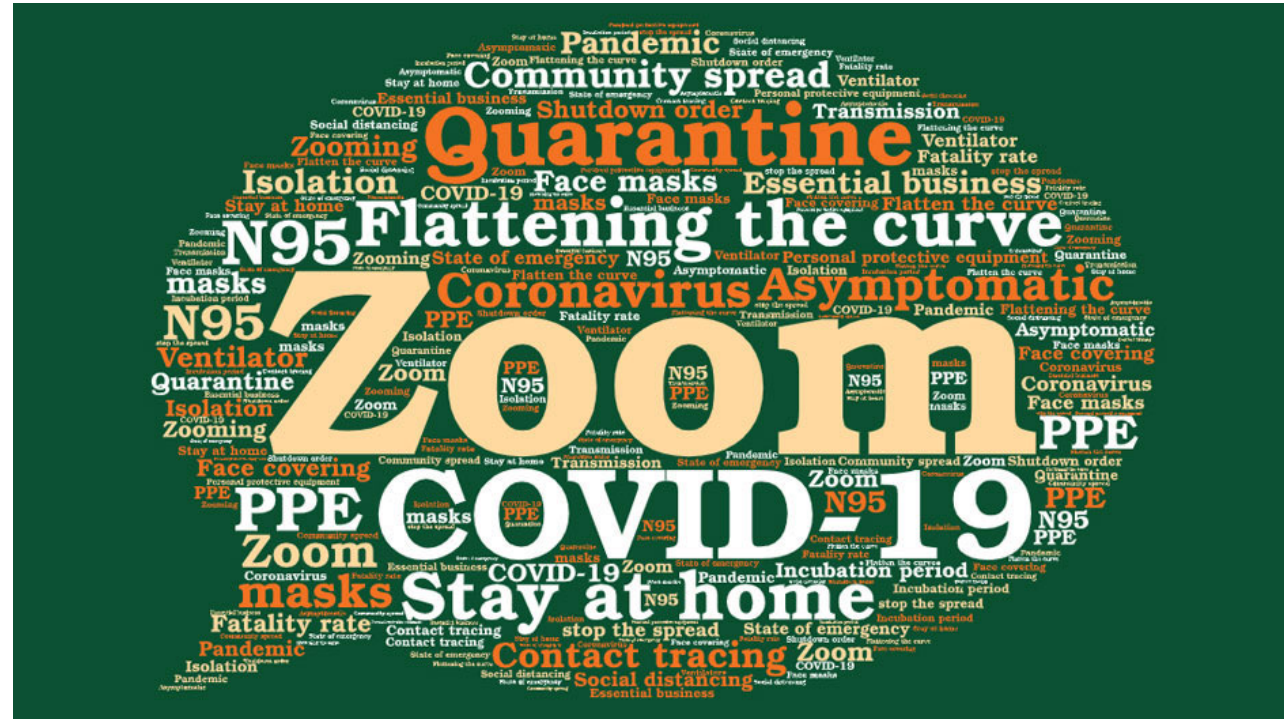
Who Am I?

Professor Dax Parcels

- Taught K-12 Math
- STEM Program Ambassador
- Worked in Data Science
- Consulted in designing, analyzing, and publishing research in nursing, education, and psychology



Let's Play: Wordle



How did we get here?

Palm Beach State College

- “Traditional” (brick-and-mortar)
- Emergency Remote (pandemic)
- Live-Online (synchronous, remote)

My Personal Journey

- “Traditional” (brick-and-mortar)
- Fully Online
- Live-Online

Today's Webinar

- Pedagogical Framework
 - A.L.I.V.E.: attend, listen, inquire, vibe, and engineer
 - Template for live-online (or remote) instruction
- Instructional Technologies
 - Google Docs, Sheets, Slides
 - Nearpod
 - Flip – formerly Flipgrid
 - Packback

Pedagogical Framework: A.L.I.V.E.

ATTEND

INQUIRE

ENGINEER

LISTEN

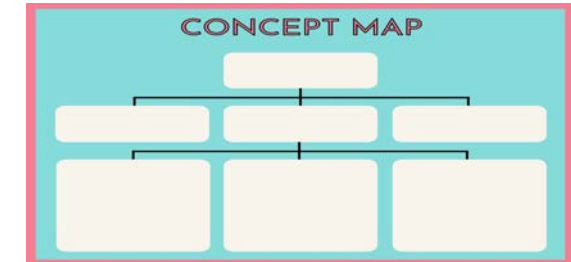
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Pedagogical Framework: A.L.I.V.E.

ATTEND

LISTEN

INQUIRE



Achievement Mindset

ENGINEER

VIBE

MINDSET

*Achievement Mindset =
Content (sensation) + Attention + Motivation + Engagement*

Instructional Template

Class Type	Timing	Activity	Visual	Auditory	Read/Write	Kinesthetic	6E
Lecture	15m Warm-up (pairs)	Q&A (theory/terms)					
		Vocab gallery (examples/realia video or audio, applications)					
		Writing prompt					
	30m Content Delivery (whole class)	Lecture - notes/clicker questions					
		Video - outline					
		Guest speaker - ask questions					
	25m Practice (3-5 students)	Discussion					
		Chart-paper or whiteboard summary					
		Library assignment, peer review exercise					
	10m Wrap-up	Review questions / assignments					
		Student meetings					
Lab	25m Reading (individual or pairs)	Text + notes					
		Article + annotation					
		Book study/webpage + 2m takeaway video					
	15m Student Presentations (whole class)	Pick topic - share text, newspaper article, research paper, activity					
	30m Breakout Room - 3-5 students (Google Docs, Padlet, Mindmeister, etc.)	Group Projects (including webquests; develop game, activity, discussion prompts)					
	10m Wrap-up	Group shareouts					
		Review questions / assignments					
		Student meetings					

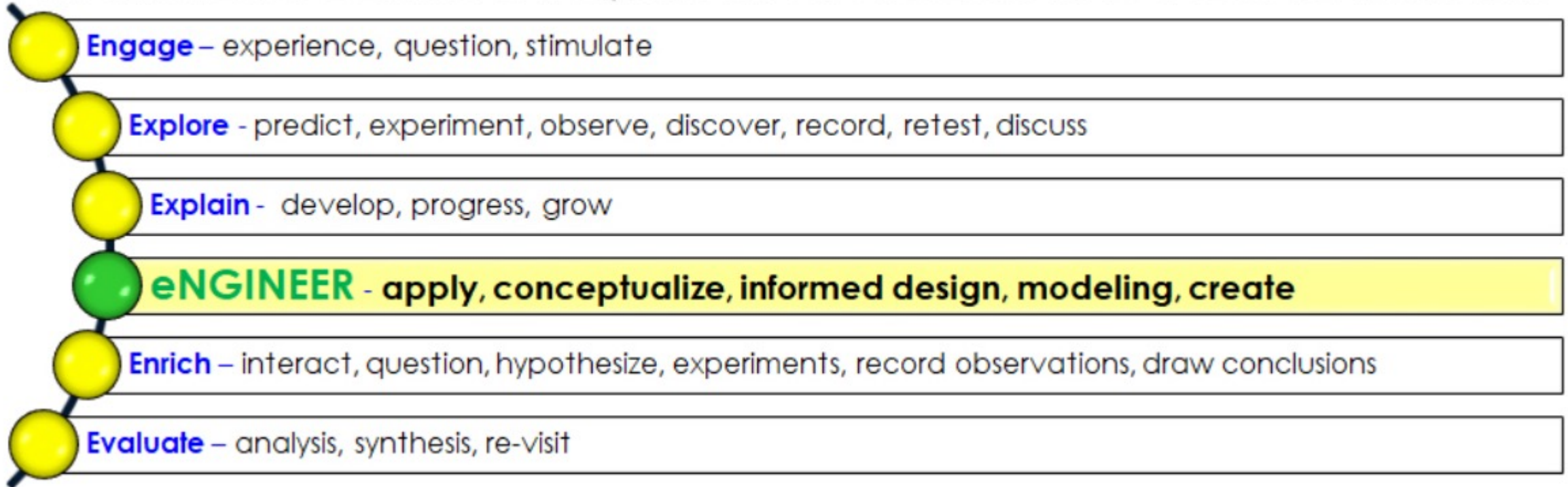
To Flip or Not to Flip?

Once I started teaching in a flipped classroom, I realized that I had spent most of my career telling students about biology rather than teaching them how to be biologists. Active learning puts the emphasis on students solving relevant problems rather than me telling students what I know.

MICHAEL ANGILLETTA, President's Professor & Associate University Dean for Learning Innovation, EdPlus / School of Life Sciences, Arizona State University

6E Lesson Plan

MAXIMIZING DESIGN & INQUIRY IN THE INTEGRATIVE STEM CLASSROOM



Instructional Technologies

- Google Docs, Sheets, Slides – Carousel, Learning Objective Activity
- Nearpod
- Flip – formerly Flipgrid; Packback; Perusall

Q & A Collaboration

How to get students to engage/participate?

What tools can we use to facilitate student collaboration?

What tools and techniques will best support faculty confidence and efficacy in remote and blended synchronous instruction?

Could the technological transition to virtual learning environments create new barriers for the most disadvantaged populations?

Outcomes...

You are able to:

- explain the pedagogical framework presented
- adapt the framework to your own content
- link appropriate technologies, pedagogies, and expected student outcomes

Additional Links

Wheel of Names (and other tools) – <http://classtools.net>

Graphic Organizers - <https://www.hmhco.com/blog/free-graphic-organizer-templates>

Tableau Public - <https://public.tableau.com/app/discover>

6E Lesson Plan - <https://www.iteea.org/STEMCenter.aspx>

Details on Student & Teacher Role in Each of the 6 E's -

<https://www.iteea.org/STEMCenter/6ELearningbyDeSIGN/49882/49885.aspx>