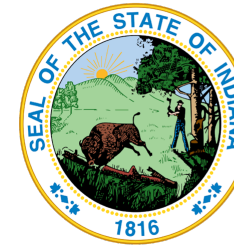


Welcome!

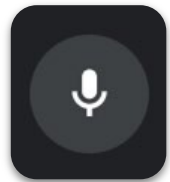
**Remember this session needs YOU
& your participation!**

Your questions, suggestions, ideas,
and experiences are valuable to the
learning for everyone.

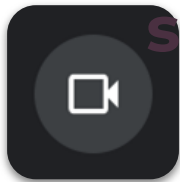


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**A few reminders before we get
started:**



↑
Please
mute your
microphone.



↑
Turn your
webcam on
if you wish.



↑
Use the **chat**
for questions
& sharing.



↑
**Closed
captioning** is
available.



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What Pre-Service Teachers Need to Know About Blended and Virtual Learning

Dr. Cecil R. Short
March 2024

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Slides at:
bit.ly/crshortvbl24





Introduction and Welcome

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Dr. Cecil R. Short

Assistant Professor & Director of
Secondary Education in
The Teachers College

Background:
Blended Learning, Personalized
Learning, Teacher Preparation, Open
Education, and now Artificial Intelligence
as Transformative Pedagogy



Technology Use



Before the Printing Press (1233)



After the Printing Press (2016)

In-Person Learning at Worst



- Technology has drastically changed the educational landscape over the last 25 years.
- Digital tools, online resources, and devices have become prevalent in the classroom.

In-Person Learning at Best



- Technology has drastically changed the educational landscape over the last 25 years.
- Digital tools, online resources, and devices have become prevalent in the classroom.

The Middle Ground



Blended Learning



Transformative Instructional Technology – 21st Century

1. Internet and Web-Based Learning
2. Learning Management Systems (LMS)
3. Open Educational Resources (OER)
4. Mobile Learning
5. Blended Learning
6. Adaptive Learning Systems
7. Virtual Reality (VR) and Augmented Reality (AR)
8. Cloud-Based Storage and Streaming
9. Video Conferencing
10. Artificial Intelligence (AI) and Generative AI

Human Effort Versus Technological Effort (1985)



Human Effort WITH Technological Effort



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VIRTUAL LEARNING

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What is Virtual Learning?

- It can be lots of things.
 - Cyber Schooling – a cyber school provides online learning materials for use by a student in his/her home. The parent is considered the “primary teacher.”
 - Virtual Schooling – a combination of asynchronous and/or synchronous instruction delivered via an online learning platform or management system by an instructor

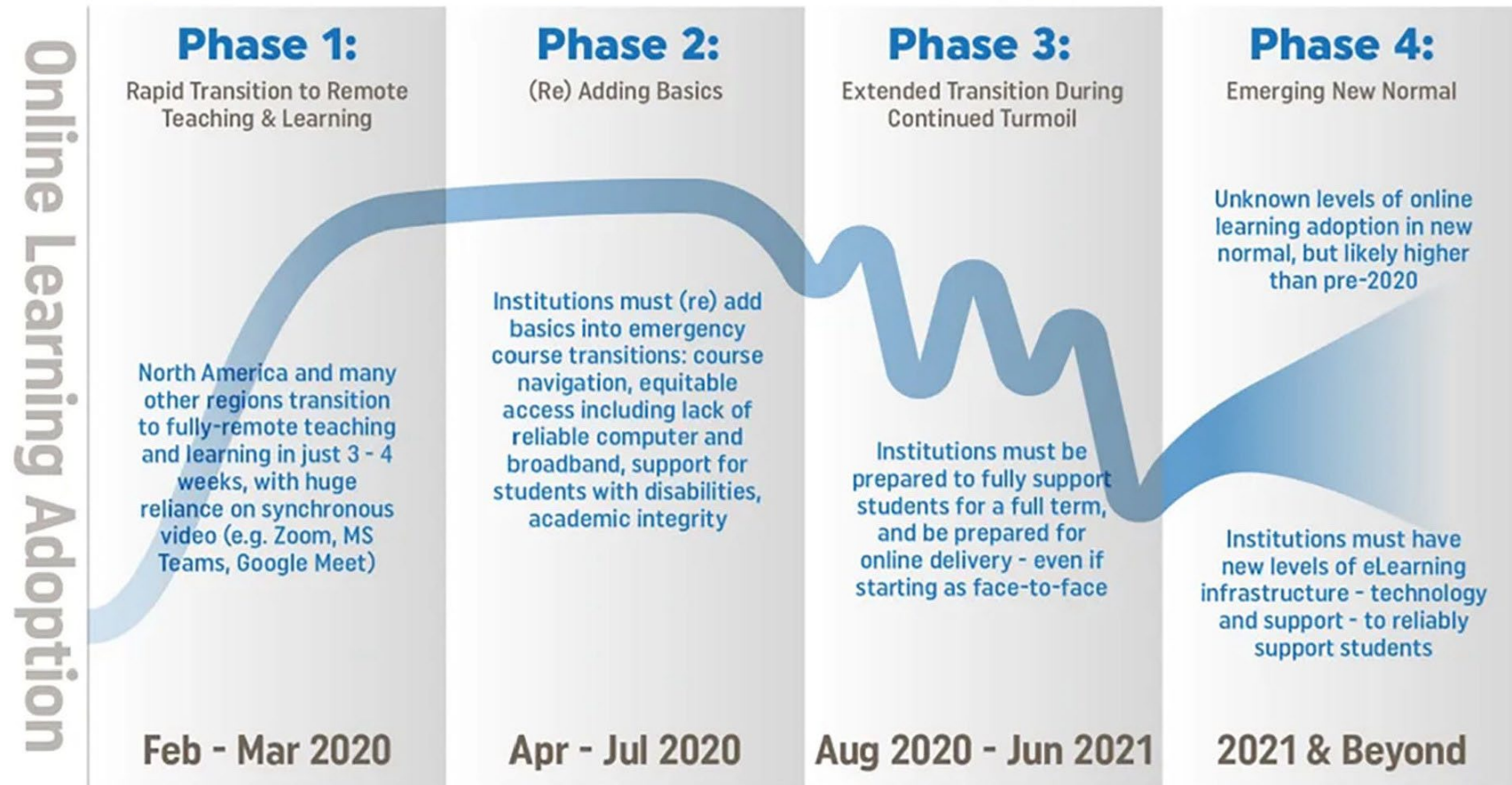


What did teachers (mostly) do during the pandemic?

- Emergency Remote Teaching (ERT)
 - “Characterized by a temporary shift of instructional delivery to an alternate delivery mode due to crises circumstances.”
 - “Involves the use of virtual teaching solutions for instruction or education that would otherwise have been delivered primarily face-to-face, and that will return to that format once the crisis or emergency has abated.”

Where are we now?

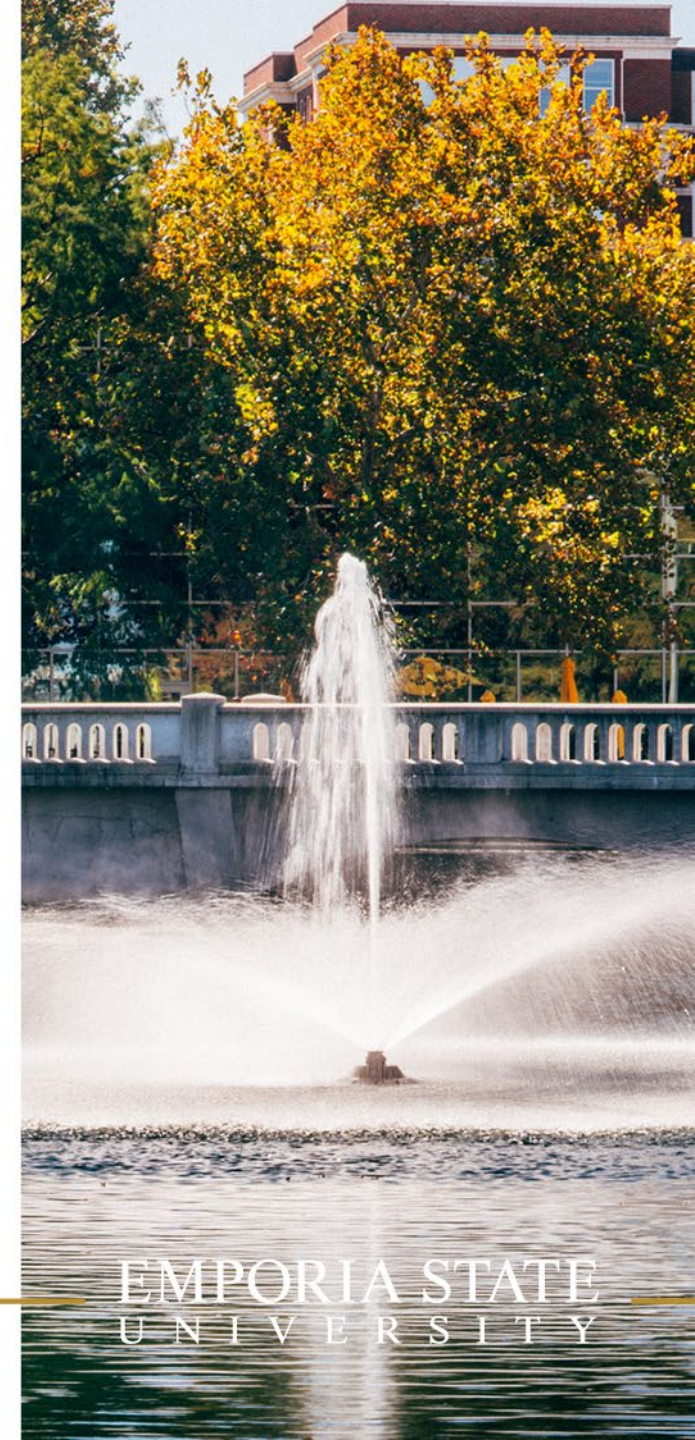
Multiple Phases of Higher Education Response to COVID-19



Outlook as of end of October, 2020

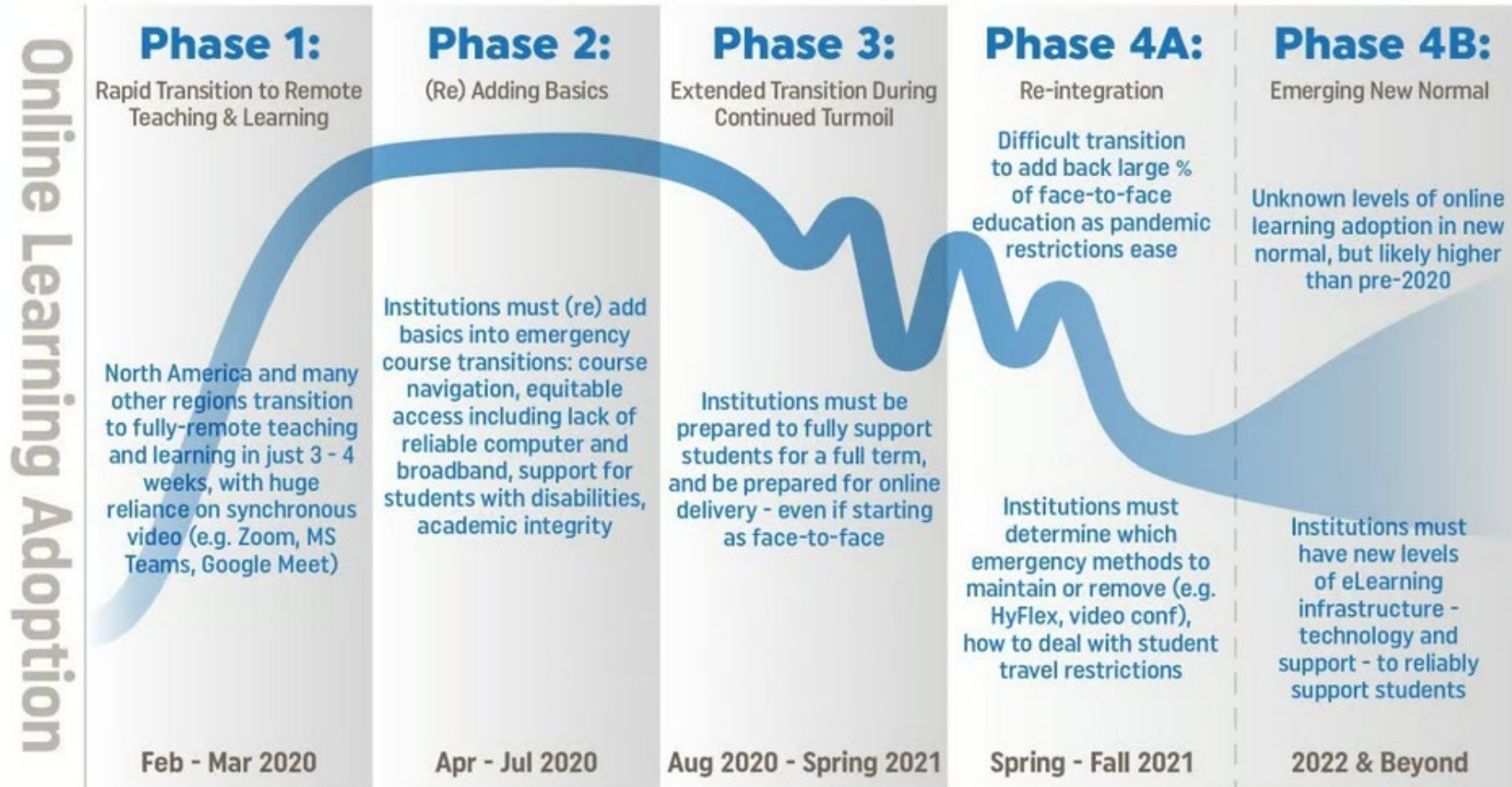
MINDWIRE

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Where are we going?

Multiple Phases of Higher Education Response to COVID-19



Outlook as of April 2021

MINDWIRE



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Possible Virtual Learning Solutions

1. Do Nothing ... Hope that ERT goes better next time
2. Create Fully Online Learning Programs
3. Create Hybrid Learning Options
4. Train Teachers for Blended Learning

A Visible Analogy of Our Options



traditional guitar/in-person

COVID-19



**Broken During Pandemic
traditional guitar/in-person**

VL Responses



ERT – Close Enough?

Option 2



**Create Virtual
Learning
Programs**

Option 3



**Create Hybrid
Learning
Programs**

Option 3



**Train Teachers
For
Blended Learning**

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BLENDING LEARNING + COMPETENCIES

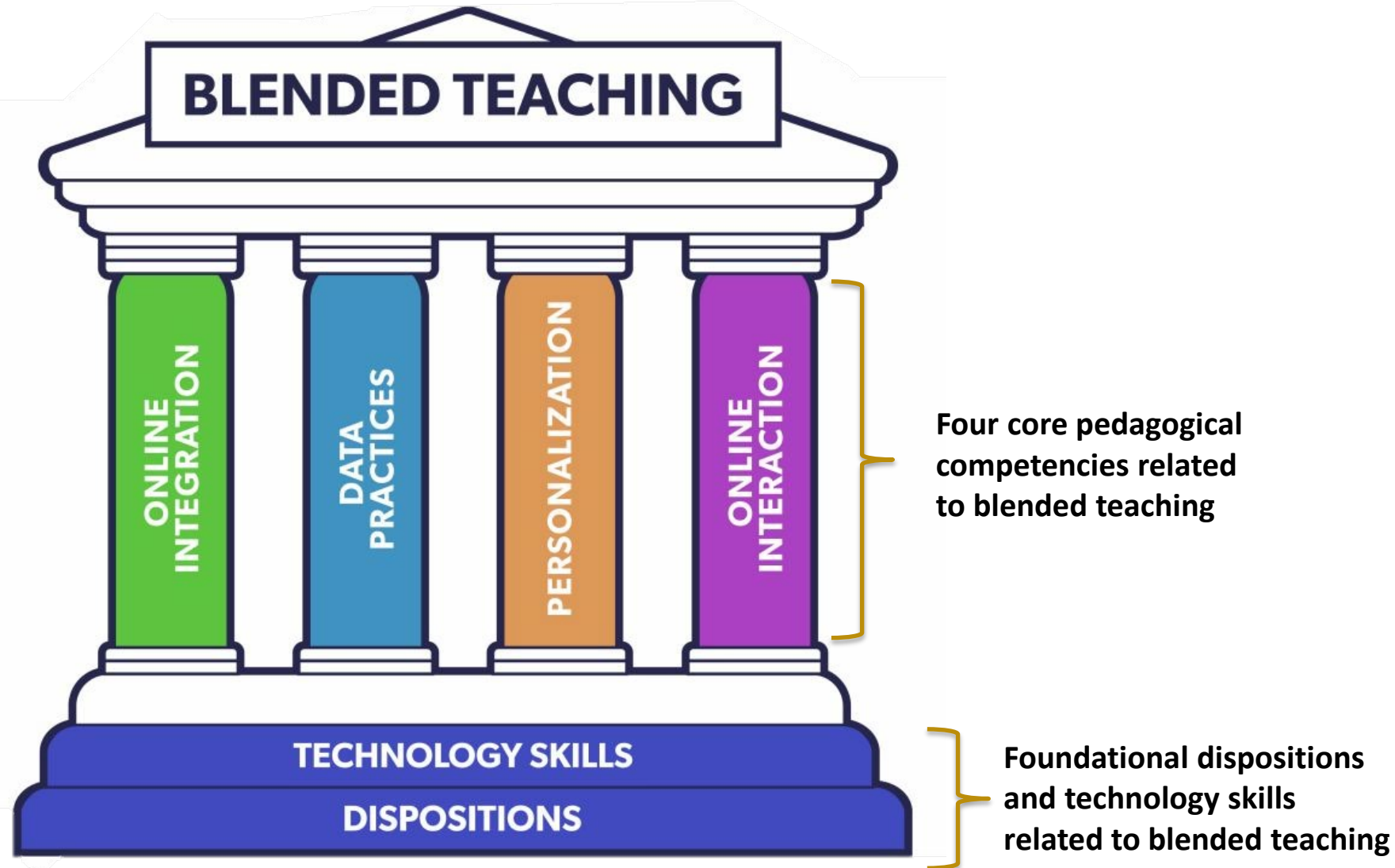
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What is Blended Learning?

- “The strategic combination of online and in-person instruction.”
- Strategically leveraging online (or technology-mediated) instruction alongside in-person instruction.
- This definition is based on the 3Ms: Media, Modality, and Method
 - Media are the tools and resources we use to teach
 - Modality is the environment in which we teach
 - Methods are the strategies and plans that we use when we teach

Blended Learning Competencies



Comparing Blended and Virtual Learning Competencies

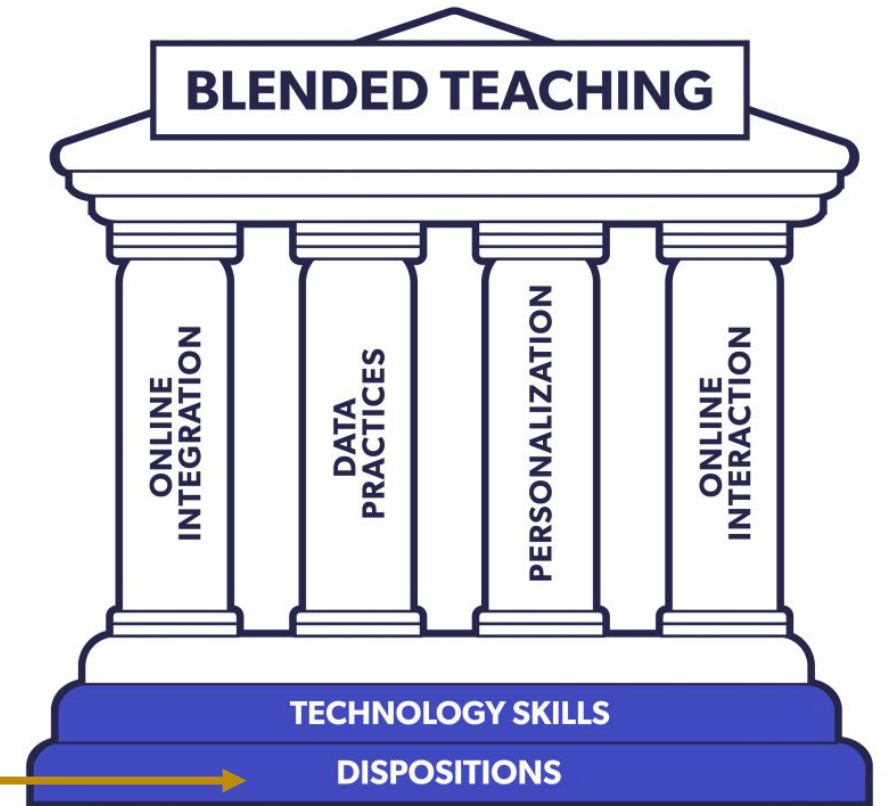
- Most Blended competency sources focused more on generic competencies.
- Blended Competencies require knowing how to manage, design, and use effective instruction in BOTH the Virtual and In-Person space.
- So, there is overlap in the competencies but blended learning is also unique.

from [Pulham, E. B., Graham, C. R., & Short, C. R. \(2018\). Generic vs. modality-specific competencies for K-12 online and blended teaching. *Journal of Online Learning Research*, 4\(1\), 33–52.](#)

	Generic 330 (57%)	OL/Digital 172 (30%)	F2F 29 (5%)	Blended 47 (8%)
Blended Teaching Competency Documents				
iNACOL Framework for Blended Learning Teacher Competencies (Powell et al., 2014)	29 (71%)	5 (12%)	0	7 (17%)
Oliver's Framework for Blended Instruction (Oliver, 2014)	35 (71%)	8 (16%)	0	6 (12%)
Preparing Teachers for Blended Environments (Oliver & Stallings, 2014)	17 (47%)	8 (22%)	1 (3%)	10 (28%)
Learning Accelerator (n.d.)	99 (59%)	26 (15%)	28 (17%)	16 (9%)
ISTE (Technology Integration) Documents				
ISTE 2017 Standards	11 (44%)	13 (52%)	0	1 (2%)
ISTE 2008 Standards	9 (35%)	13 (50%)	0	4 (15%)
Online Teaching Competency Documents				
iNACOL Online Teaching Competencies (iNACOL, 2011)	71 (59%)	50 (41%)	N/A	1 (<1%)
Virtual Schooling Standards and Best Practices for Teacher Education (Ferdig et al., 2009)	27 (82%)	6 (18%)	N/A	0
Going Virtual! (Dawley et al., 2010)	14 (35%)	26 (65%)	N/A	0
Best practices in teaching K-12 online: Lessons learned from Michigan Virtual School (DiPietro, 2008)	18 (49%)	17 (46%)	N/A	2 (5%)

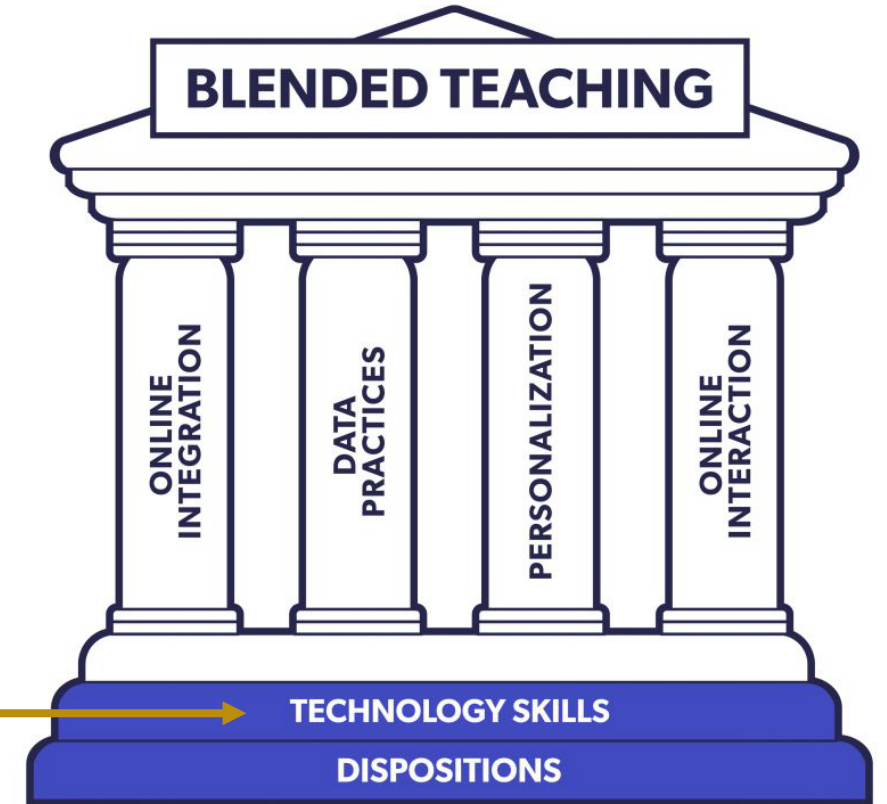
Blended Learning Dispositions/Values

- Student Ownership and Agency
- Mastery Learning
- Value of Data-Driven Decisions
- Growth Orientation
- Emphasis on Life Skills
- Value of Online Learning



Blended Learning Dispositions/Values

- Basic Technology Literacy
- Digital Citizenship
- Learning Management Systems
- Educational Software
- Media Creation Tools
- Communication Tools
- Emerging Technology & AI Tools



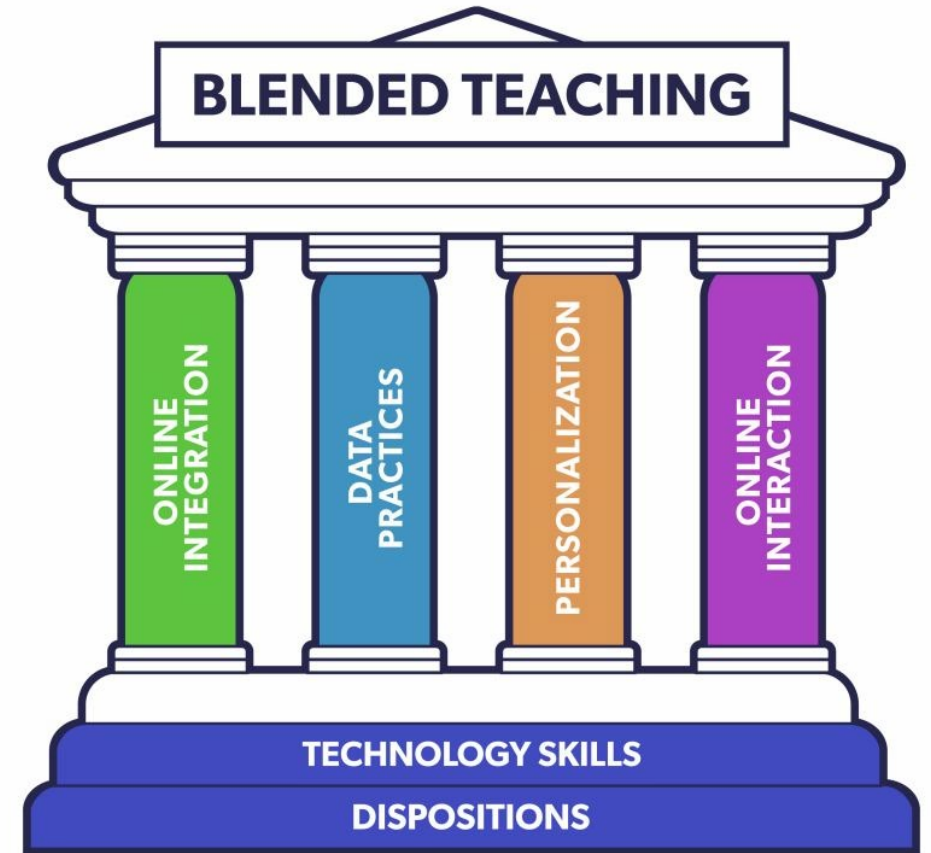
Determining Your Blended Teaching Readiness

It only takes about 5 minutes to do a self assessment of your blended teaching readiness.



<http://bit.ly/blended-teaching-readiness>

This assessment can also provide group data through the use of a unique identifier code that you create.



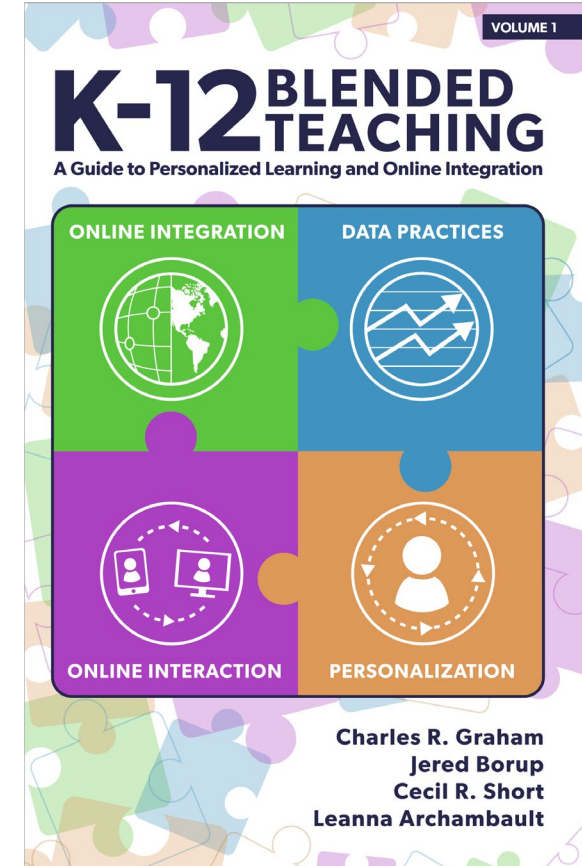
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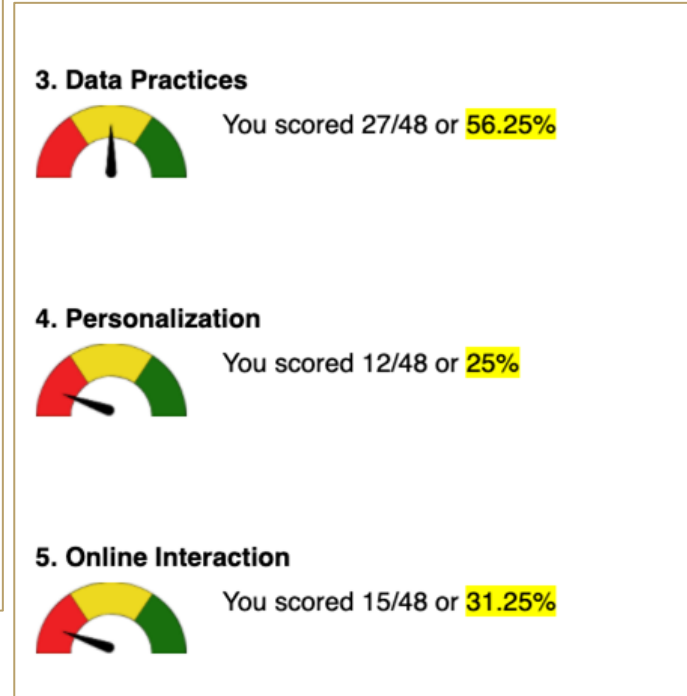
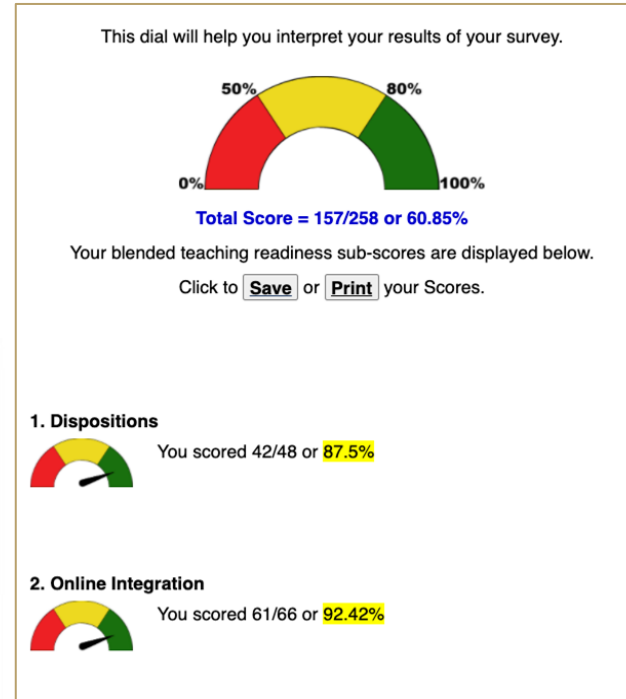


<https://bit.ly/k12blended>

Reading the BTR Report

Individual BTR Report

Your anonymous individual report will tell you personally which competencies you are strong in (green) or need work on (yellow & red).

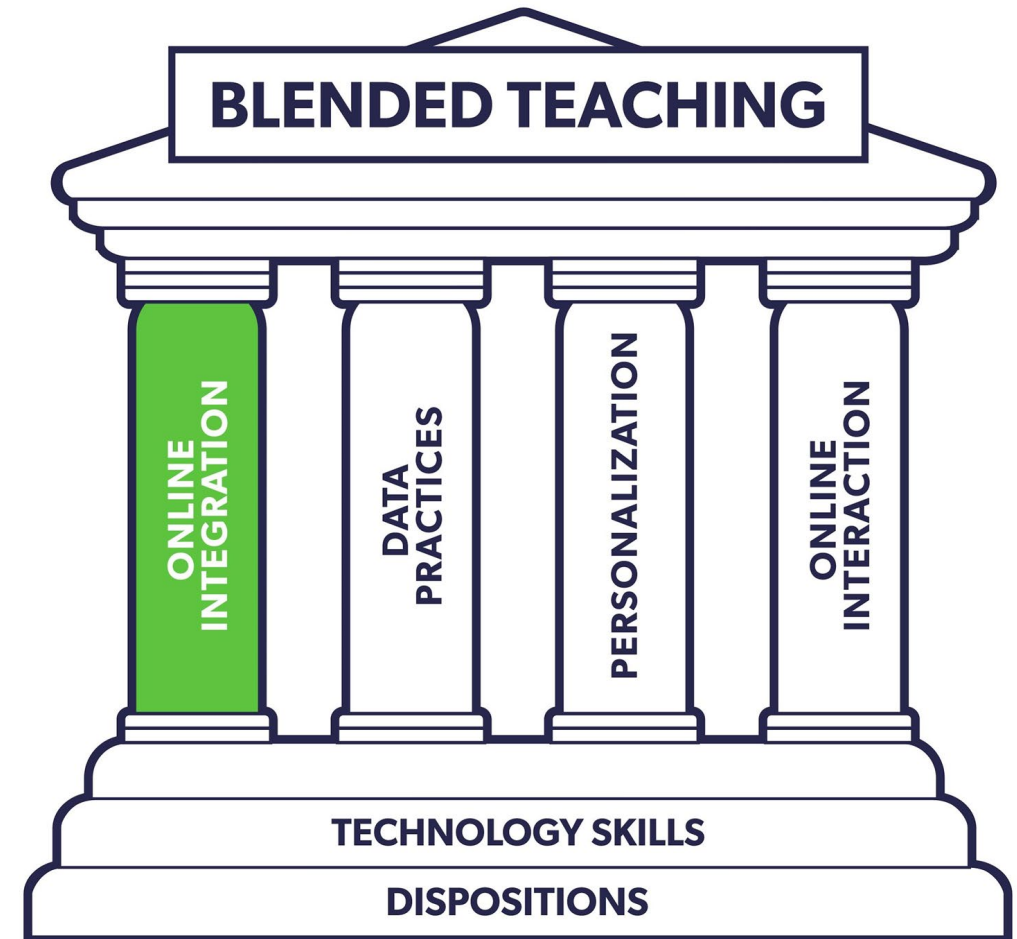




Online Integration

The ability to effectively combine online instruction with in-person instruction.

- ✓ Understanding a range of blended teaching models.
- ✓ Creating and ***evaluating*** and effective blend.
- ✓ Managing the blended environment and routines.

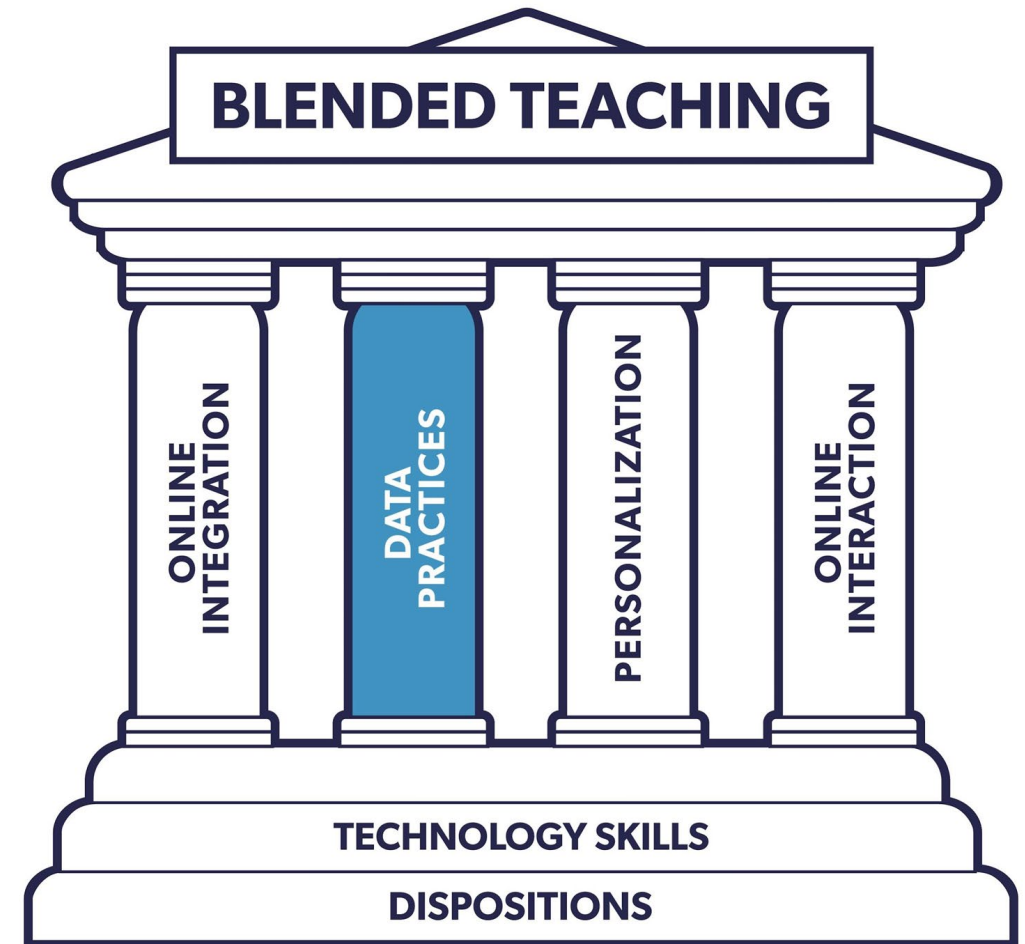




Data Practices

The ability to use digital tools to monitor student activity and performance in order to guide student growth.

- ☒ Understanding mastery- vs time-based progression.
- ☒ Monitoring student activity and growth.
- ☒ Using data to improve Learning.

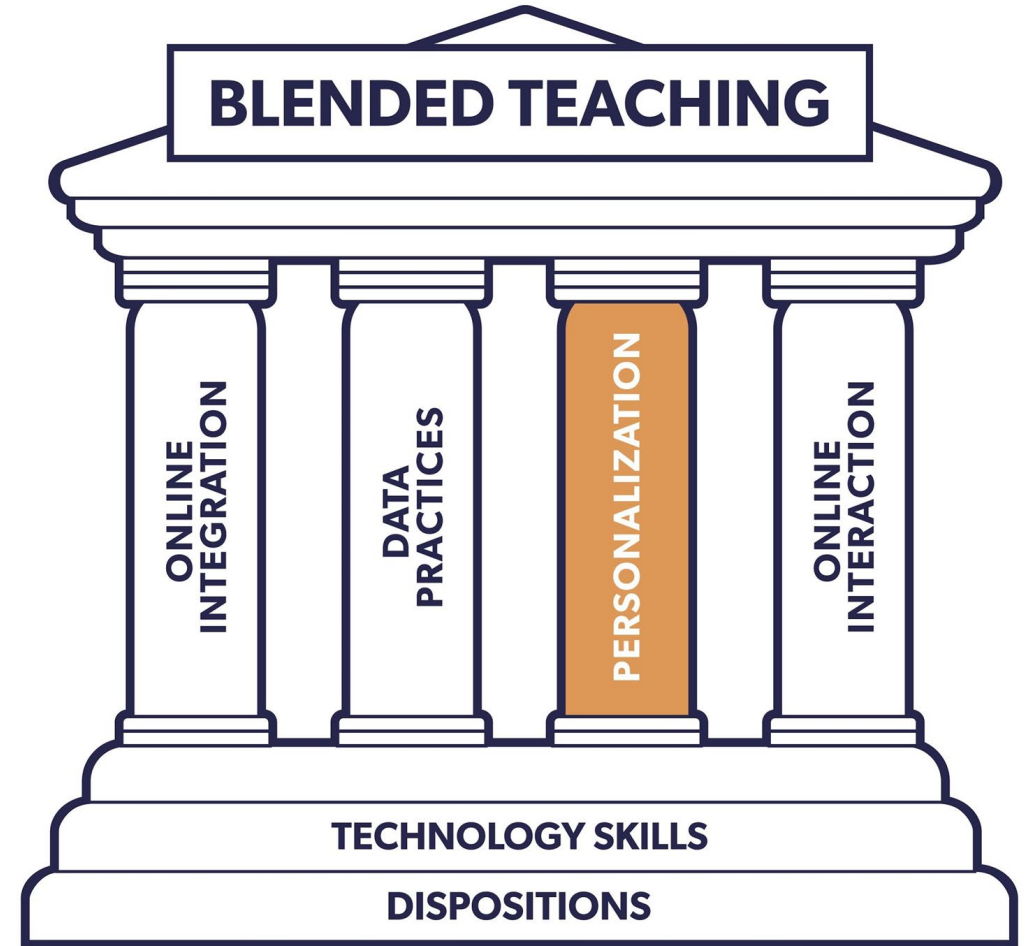




Personalization

The ability to implement a learning environment that allows for student customization of goals, pace, and/or learning path.

- ✓ Understanding differentiation vs personalization.
- ✓ Personalizing learning goals.
- ✓ Personalizing learning assessments.
- ✓ Personalizing learning activities.

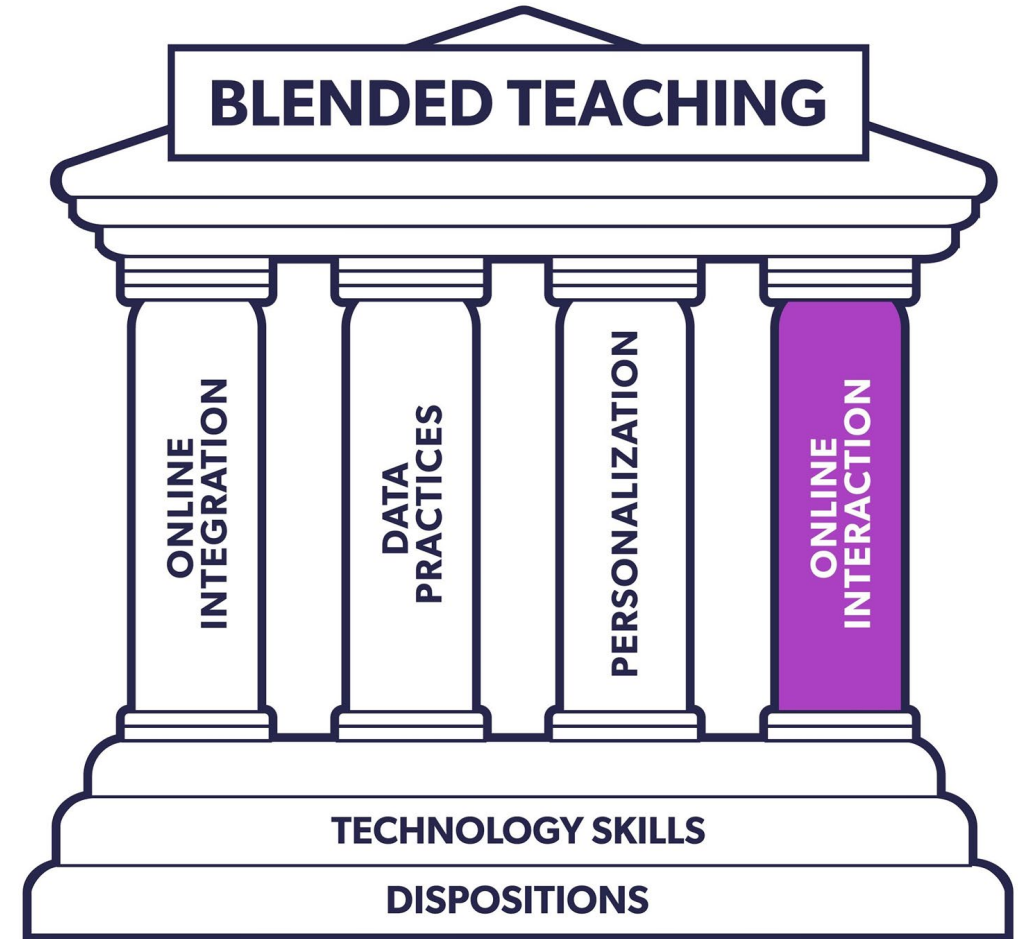




Online Interaction

The ability to facilitate online interactions with and between students.

- ✓ Understanding strengths and weaknesses of different modes of online interaction.
- ✓ Creating and facilitating effective online discussions.
- ✓ Providing effective feedback online.





ONLINE INTEGRATION

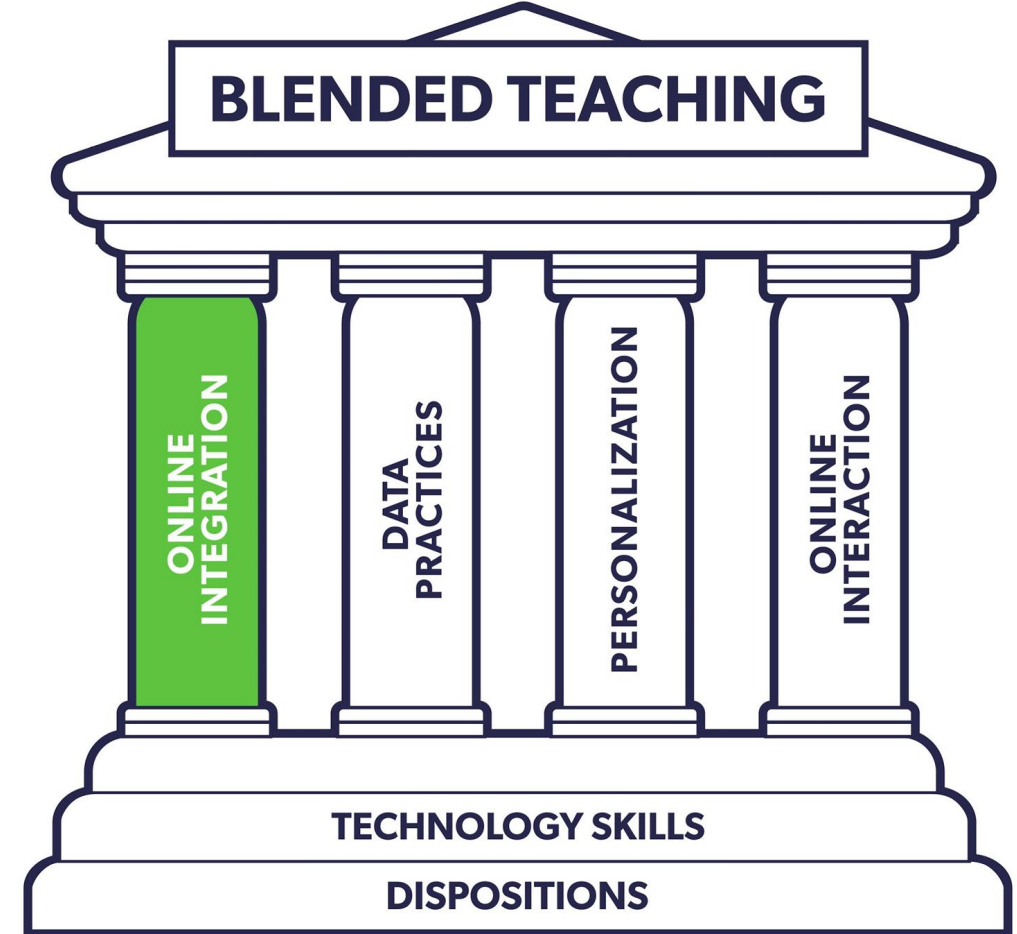
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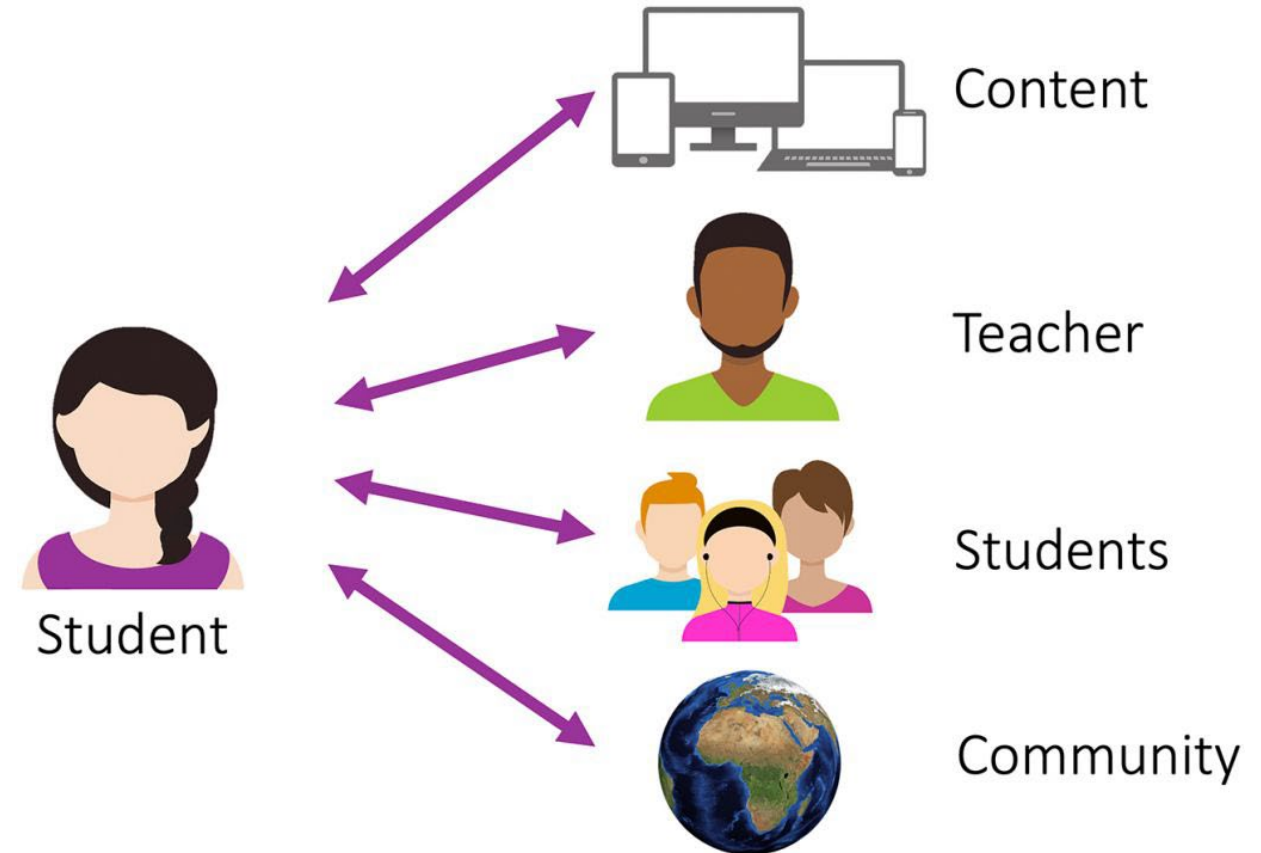




Blended Models

- Rotation Models
- Flipped Learning
- Flex Learning
- HyFlex Learning

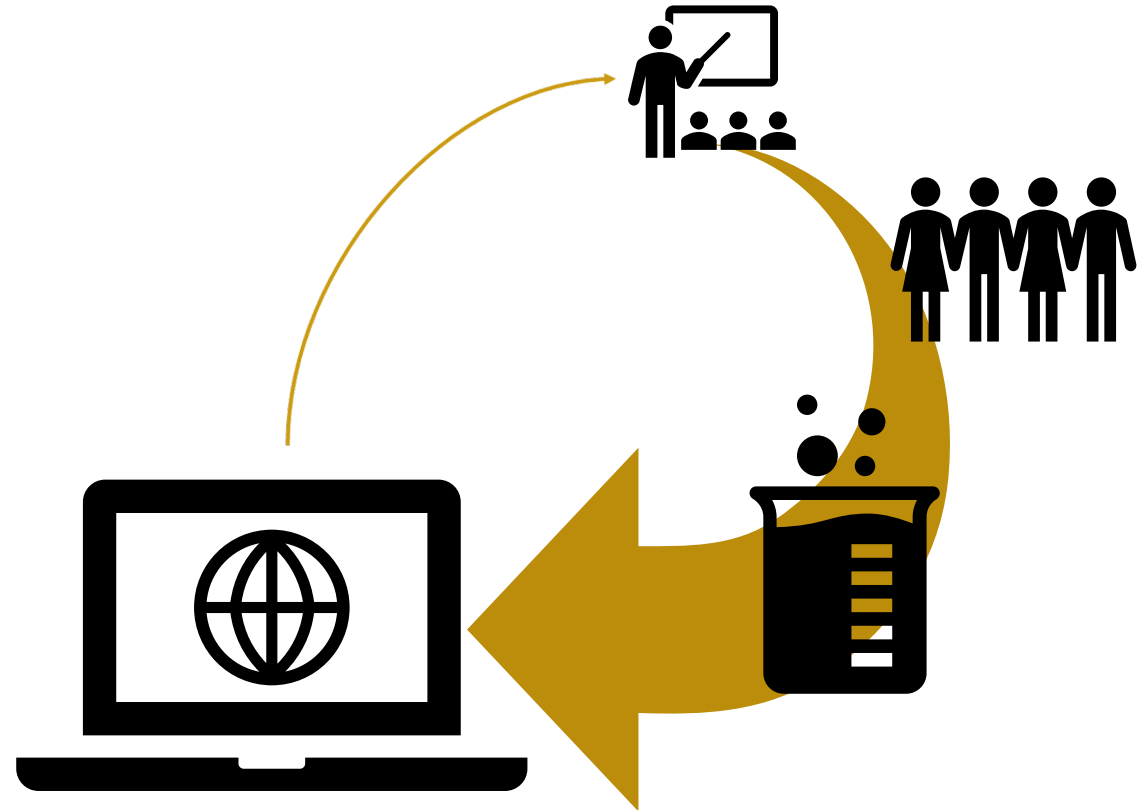
Four Types of Interaction





Rotation Models

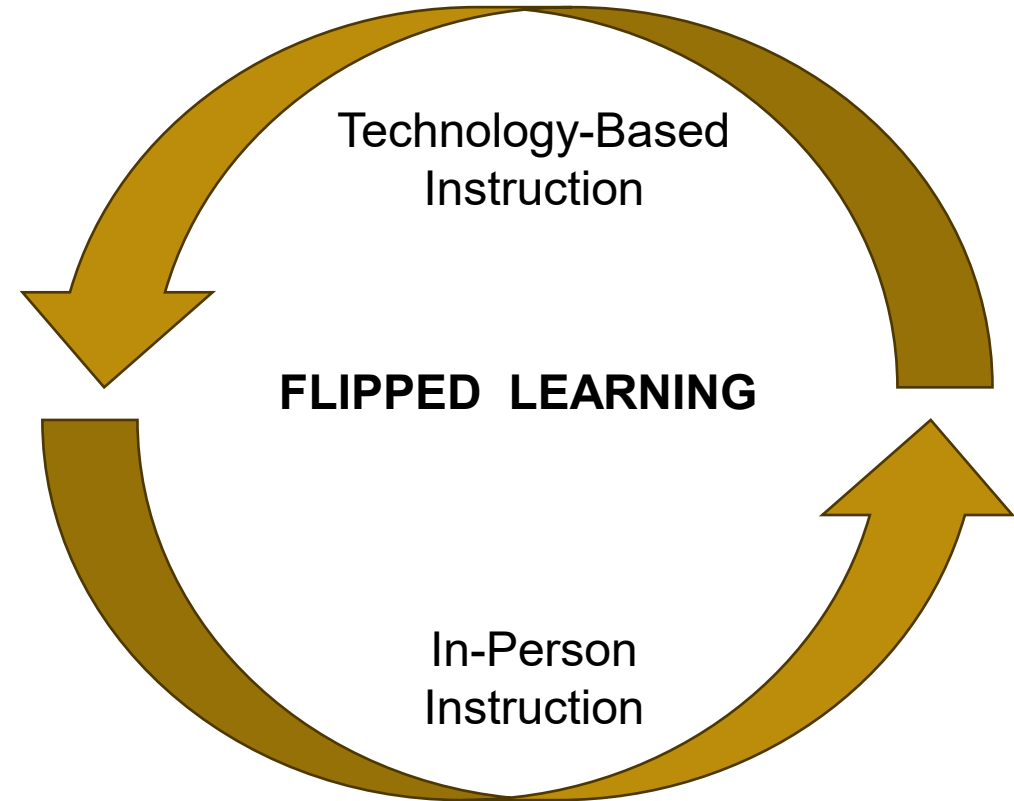
1. Station Rotation
2. Lab Rotation
3. Group Rotation
4. Resource Rotation





Flipped Learning

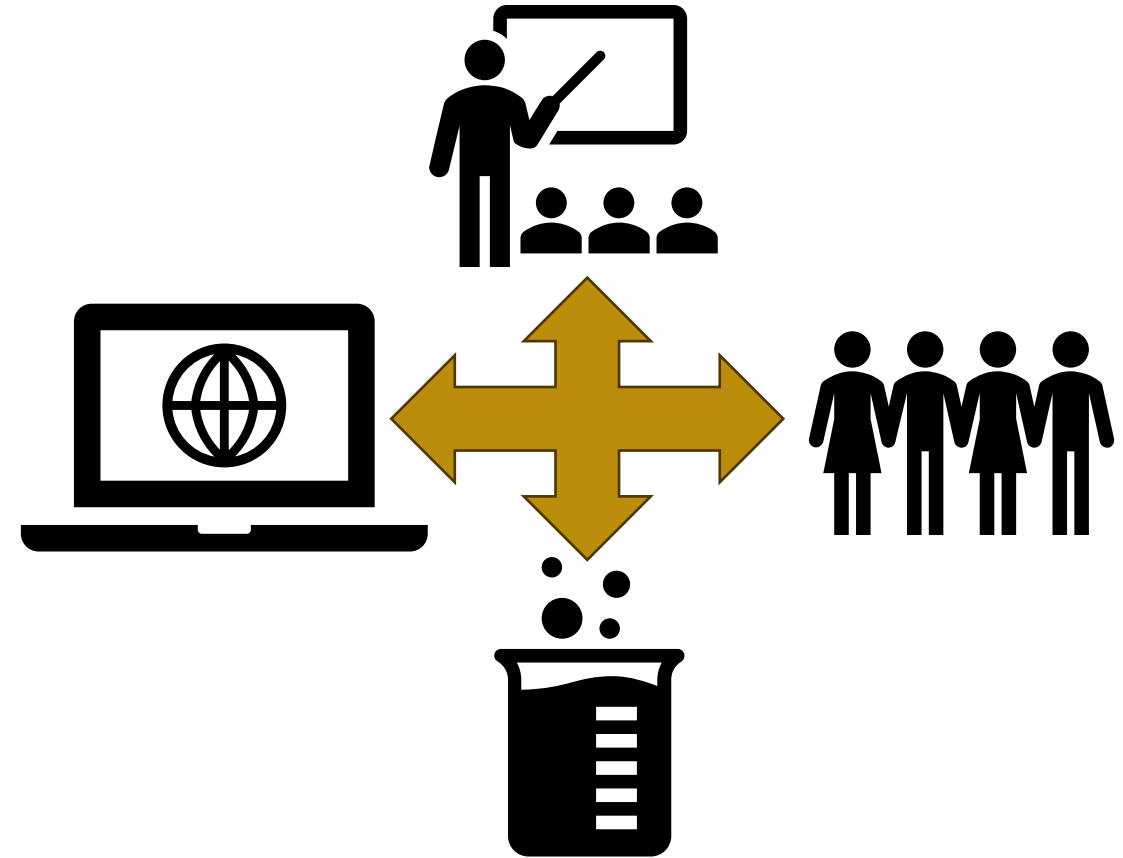
1. Inverted Classroom
2. Discussion-Oriented Flip
3. Demonstration-Focused Flip
4. Faux-Flip (Flex Light)
5. Group-Based Flip
6. Virtual Flip
7. Flipped Teacher





Flex Learning

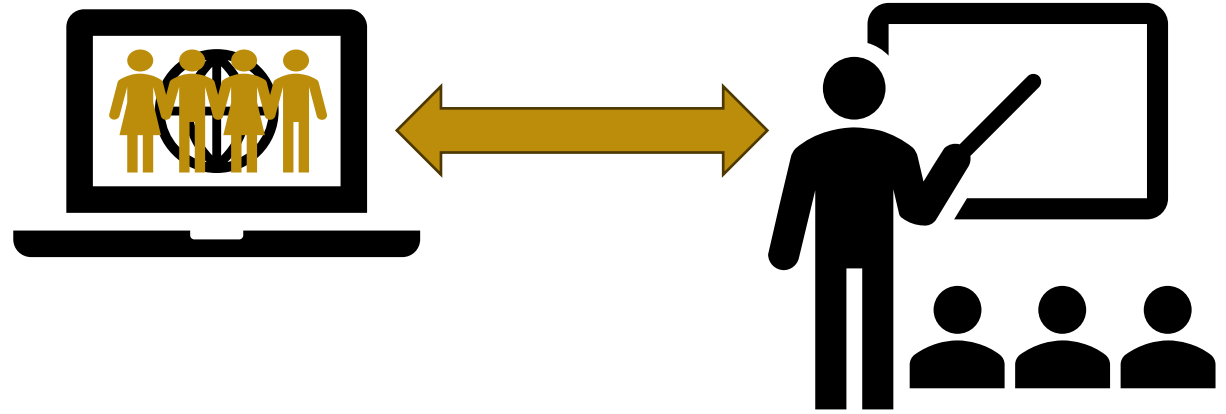
- Like a mixture of flipped learning and station rotation learning.
- Students move around the learning space according to their learning needs.
- This can require more training and development of learner agency, but this can be developed within, amongst, and across any PreK-12 grade levels.





HyFlex Learning

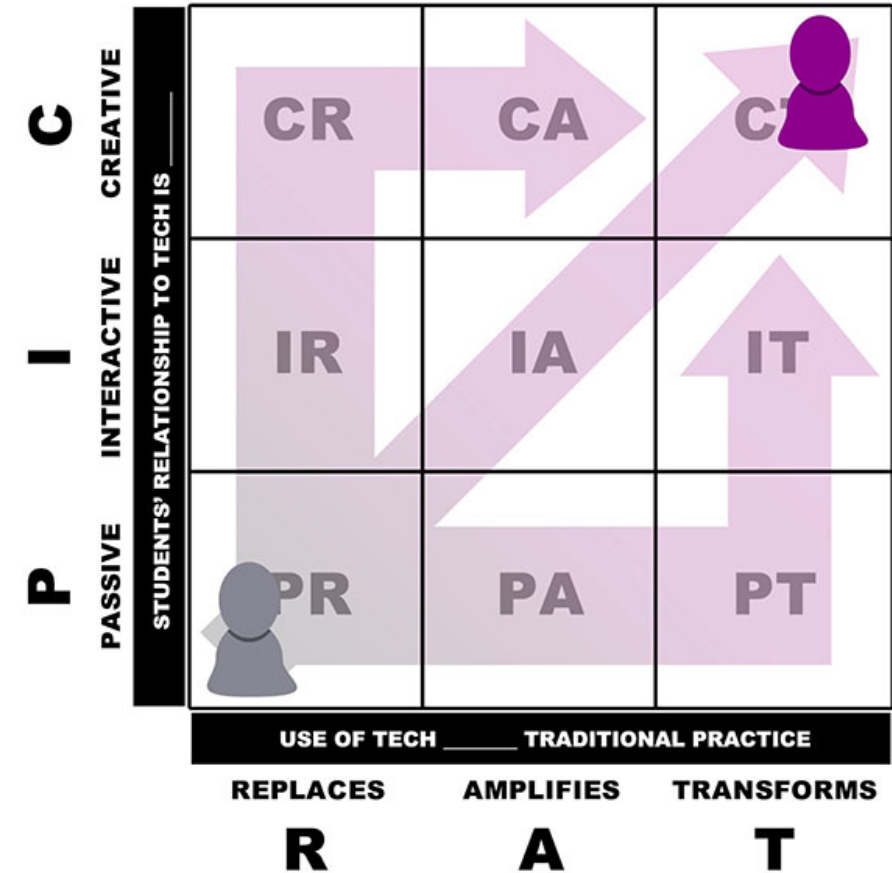
- Combines synchronous learning of in-person learners with synchronous learning of virtual learners.
- An organization of the learning space that is more common in Higher Ed., but can be utilized in P-12.
- Can require high amounts of planning in order to create equitable learning opportunities.





Choosing a Blended Model

- Based on amplifying and transforming education
- Based on solving problems of practice within your content area and context
- Examples can be found in the free *K-12 Blended Teaching* Vol. 2 book series





QUESTIONS?

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bit.ly/crshortai2023



Survey for Future Sessions

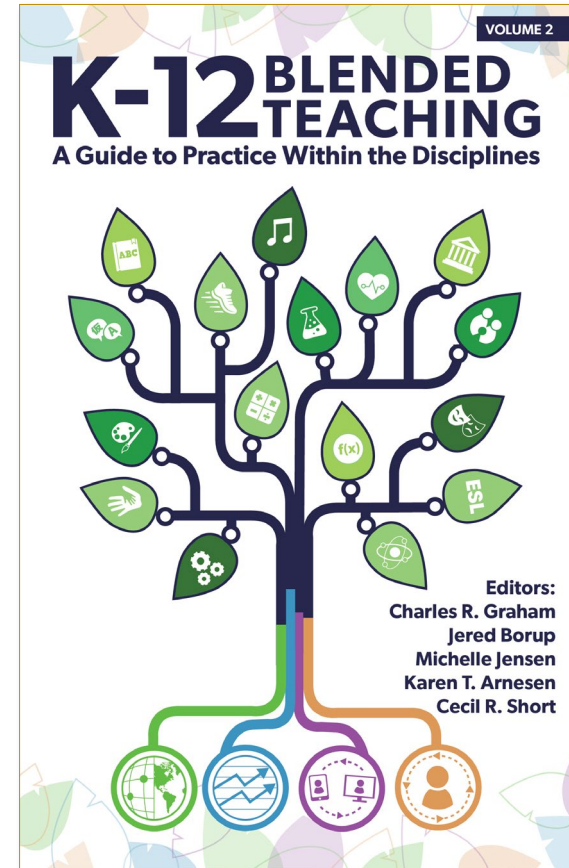
Which topics would you like to learn more about?

Designing Virtual Activities, Managing Virtual Spaces,
Using AI in Blended Learning, Data Practices,
Personalized Learning, Online Interactions?

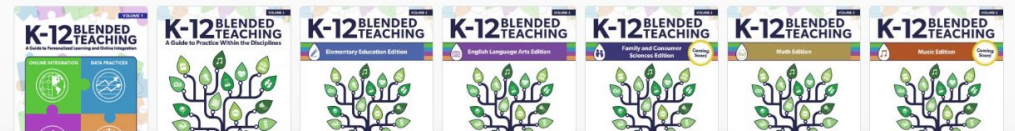
Let us know here:



<http://bit.ly/btshortsessions>



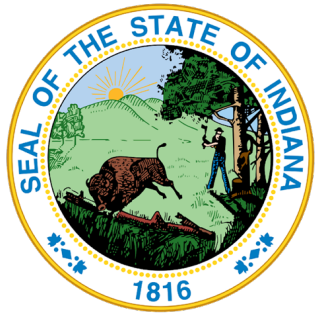
▣ K-12 Blended Teaching



<https://bit.ly/k12blended2>

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Thank you!



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LearningLab

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