

# Integrating Technology with Developmental Spelling Instruction

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## Agenda

- Why integrate technology?
- The Whats and Whys of Developmental Spelling
- The How of Integrating Tech for Differentiation



## Why Integrate Technology?

## What Is Integration?

Using Technology	Technology Integration
Technology usage is casual, arbitrary & often an afterthought.	Technology usage is planned & successful.
Technology is rare or sporadically used in the classroom.	Technology is a routine part of the classroom environment.
Technology is used primarily for the sake of using technology.	Technology is used to support curricular goals & learning objectives.
Technology is used to instruct students on content.	Technology is used to engage students with content.
Technology is mostly being used by the students.	Technology is mostly being used by the students.
Focus on simple using technologies.	Focus on using technologies to create and develop new thinking processes.
More educational time is spent learning how to use the technology.	More instructional time is spent using the technology to learn.
Technology is used to complete lower-order thinking tasks.	Technology is used to encourage higher-order thinking skills.
Technology is used solely by individuals working alone.	Technology is used to facilitate collaboration & work in the classroom.
Technology is used to facilitate activities that are tedious or tedious without technology.	Technology is used to facilitate activities that would otherwise be difficult or impossible.
Technology is used to deliver information.	Technology is used to construct & build knowledge.
Technology is peripheral to the learning activity.	Technology is essential to the learning activity.

*"Effective integration of technology is achieved when students are able to select technology tools to help them obtain information in a timely manner, analyze and synthesize the information, and present it professionally. The technology should become an integral part of how the classroom functions -- as accessible as all other classroom tools."*

- National Educational Technology Standards for Students, ISTE

## SAMR Model

- Developed by Dr. Ruben R. Puentedura
- Designed to help teachers evaluate their level of tech integration.
- Four levels
  - Substitution
  - Augmentation
  - Modification
  - Redefinition

Substitution	Augmentation	Modification	Redefinition
Tech acts as a direct tool substitute, with no functional change.	Tech acts as a direct tool substitute, with functional improvement.	Tech allows for significant task redesign.	Tech allows for the creation of new tasks, previously inconceivable.
<i>cup of coffee</i>	<i>latte</i>	<i>caramel macchiato</i>	<i>pumpkin spice</i>

## Assistive Technology

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*“Any item, piece of equipment, or product system, whether acquired commercially off the shelf, modified, or customized, that is used to increase, maintain, or improve the functional capacity of students with disabilities.”*

- SEC. 602. Definitions. 20 USC 1401. P.L. 108-446. Dec. 3, 2014



## Developmental Spelling

What is it and Why do we do it?

## Research Basis

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- Developmental Spelling (Bear et al, 2013)
  - English orthography: alphabet, pattern, & meaning
  - Spelling develops along a continuum
- Best for students with some phonics knowledge, rather than as an initial exposure to decoding and phonics (What Works Clearinghouse, 2013)

## Positives

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- By looking for what students “use but confuse”, we’re meeting them at their developmental level.
- Provides multiple exposures to words and patterns.
- Doesn’t hide exceptions.

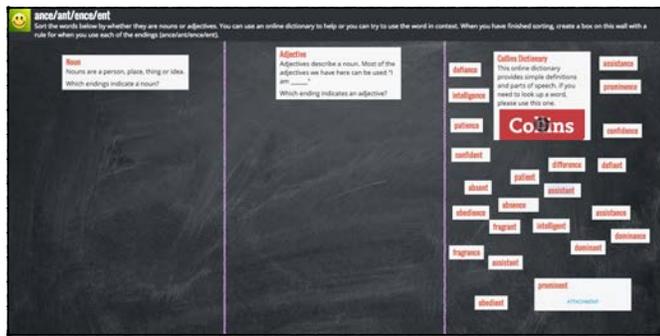
## Components of a Word Study Lesson

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- Step 1: Model
- Step 2: Sort and Check
- Step 3: Compare and Declare
- Step 4: Extend

Bear, Invernizzi, Templeton & Johnston. (2013). *Words Their Way*. NY: Pearson.





## Differentiating with Technology

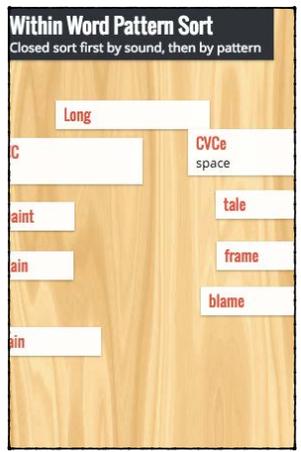
## Low-Tech and “No-Tech” A.T.



- Sorting boards
- Using card stock/stiff paper
- Highlighters to assist in locating specific features

## Tech and Apps that Substitute or Augment

- Learning Management Systems (Schoolology, Edmodo, etc)
- Podcasting/video modeling
- Padlet
- Online WSNBs



## Learning Management Systems

- Examples: Edmodo, Schoolology, Moodle
- Uses:
  - Assign differentiated tasks
  - A holding area for videos, tips, etc
  - Students interact and upload assignments

## Podcasting & Video Modeling

- Any video recording program or app will work.
- Can allow for flipped classroom or for students to review modeling as necessary.

## Padlet

- Platform: Web-app (can be added to Chrome as an app)
- Substitution—replacing word cards with words on a Padlet wall (see [this example](#))
- Augmentation—adding additional supports (links, images, audio files with word readings—see [this example](#))
- AT: Students with fine motor difficulties, students with organizational difficulties

## Padlet

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- Best for individual students who need AT support
- Only one student at a time can do a sort on a Padlet (but you can easily make copies of a Padlet once you've made one)
- But...

## Other Ways to Use Padlet

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- Students can create their own sorts as an assessment activity and share them.
- Within their sorts they can embed multimedia or keep them simple.
- Other students can complete the sort and give them feedback.

## Play Time!

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- Create a sort or a lesson for a student activity (with a model) using Padlet
- Share it with me as a collaborator so you can access it from my computer.
- Volunteers can share their resource/lesson.

## Online WSNB

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- Platforms: Any—generally web-based.
- Possible apps/programs: [Google Drive](#), [Evernote](#)
- Substitution—replacing paper notebooks with digital ones.
- Augmentation—embedding audio or video data into WSNB (videos of students explaining the sort, etc)
- AT: Great for students with fine motor difficulties, for whom rewriting by hand and gluing may be difficult.

## Tech Tools for Modification and Redefinition

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## Screen Casting

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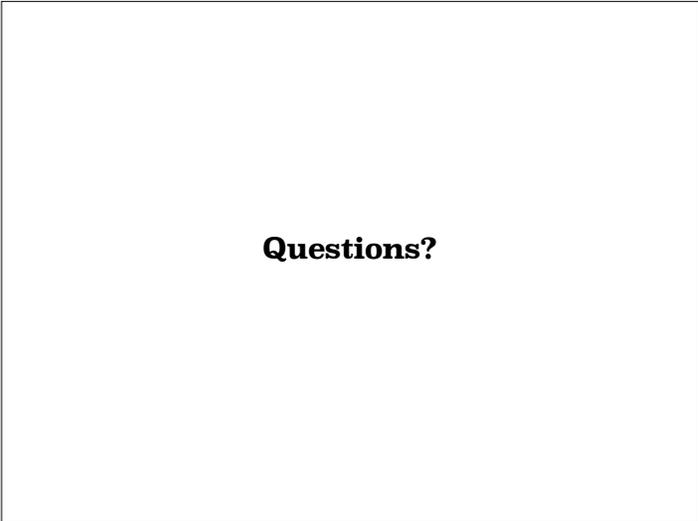
- Apps/Platforms: [Explain Everything](#), [Knowmia](#), [ShowMe](#), as well as built-in tools on Mac and Windows computers
- Purpose: Encourage students to evaluate words to see if they fit a pattern and then create a lesson (with or without images) to teach others.



## **Play Time!**

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- Try it out using either using a built in program on your computer or a tablet using Knowmia, ShowMe or Explain Everything to teach a spelling concept.
- Sharing.



**Questions?**