Integrating Technology with Developmental Spelling Instruction

Samantha Mosher, MA
Everyone Reading 2015
March 3, 2015
email: samanthamosher@gmail.com
Twitter: @samosher2118
Website: http://www.samanthamosher.com

Agenda

- ☐ **Why integrate technology?**

- ☐ **The Whats and Whys of Developmental Spelling**

- ☐ **The How of Integrating Tech for Differentiation**

Why Integrate Technology?

What Is Integration?

"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 — Tech acts as a direct tool substitute, with no functional change. *cup of coffee*

Augmentation — Tech acts as a direct tool substitute, with functional improvement. *latte*

Modification — Tech allows for significant task redesign. *caramel macchiato*

Redefinition — Tech allows for the creation of new tasks, previously inconceivable. *pumpkin spice*

SAMR

Assistive Technology

"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

- ☐ **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

- ☐ **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.**
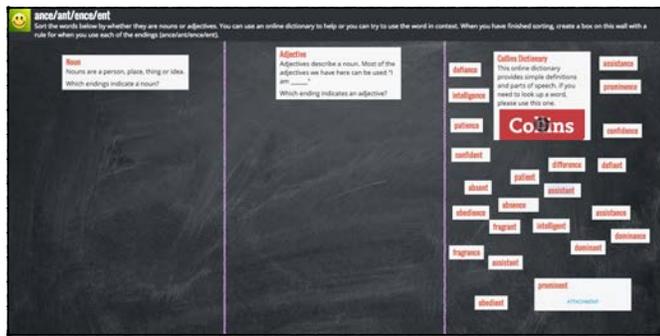
Components of a Word Study Lesson

- ☐ **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.
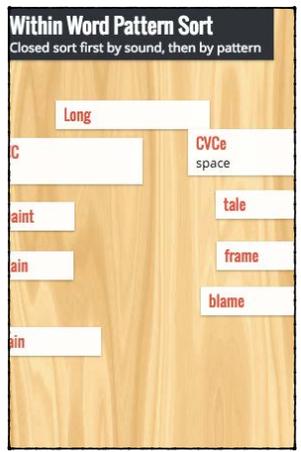
Differentiating with Technology

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 (Schoology, Edmodo, etc)
- Podcasting/video modeling
- Padlet
- Online WSNBs

Learning Management Systems

- Examples: Edmodo, Schoology, 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

- 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

- 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!

- Create a sort or 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

- Platforms: Any—generally web-based.

- Possible apps/programs: <u>Google Drive,</u> <u>Evernote</u>

- 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

Screen Casting

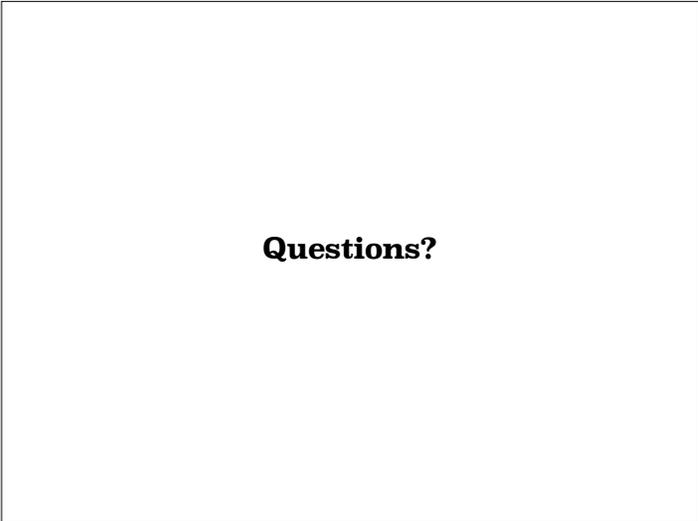- Apps/Platforms: <u>Explain Everything</u>, <u>Knowmia</u>, <u>ShowMe</u>, as well as built-in tools on Mac and Windows computers

- 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!

- ☐ 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?