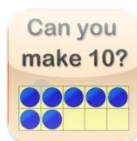




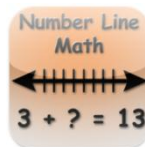
Please download and install each of the following free titles on your iPad (note...“Plus” apps will also work on the iPhone/iPod Touch):



Count Sort
(Plus)



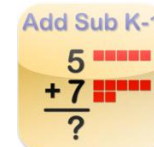
10 Frame Fill
(Plus)



Number
Line Math



What's Hiding?
(Plus)



Add-Sub
K-1

For your convenience, scannable bar codes for each app are available around the room:





The NSP Strives to Meet Two Over-Arching Goals:

1. Provide purposeful, individualized instruction for Longfellow's kindergarteners
2. Enhance the elementary teacher education program at Augustana





Goals:

1. Purposeful instruction for children
2. Enhance teacher education

What Do We Do To Meet These Goals?



Embedded clinical experience in the fall term math teaching methods course for undergraduates.

Paid teaching internships for students interested in exploring kindergarten numeracy work further.





Goals:

1. Purposeful instruction for children
2. Enhance teacher education

“Demand-Side” Software Production: Another Approach to Our Twin Goals

- Provides electronic learning experiences targeted to the specific learning needs that arise in our local kindergarten
- Prompts pre-service and in-service teachers to reflect and act on important pedagogical questions:
 - What are the learning needs of this child?
 - What activity or activities might help this child learn this particular concept?
 - How might technology be harnessed?



Why “Demand-Side” Software Production?

- Dominant “supply-side” model has its pitfalls:

Optimizing e-learning “will require faculty who seek new ways to solve old riddles and technologists who understand that their business is using technology to help people solve their own problems” (Zemsky, 2009, p. 154).

- Teachers often wish “there was an app for that”

In the past, if my students or I had a specific need, I then searched for the most appropriate software program, online service or piece of hardware that could best meet those needs...what I’ve never experienced is being able to ask for a specific software program or game to custom-fit that need! That was amazing. When we thought our students needed more practice and reinforcement in counting skills, for example – you created fun and motivating programs to do that (Berni Carmack, Longfellow Teacher)

I thought it was great when we could specifically identify which skills the children needed extra support and practice by using the observational assessments each month with [our curriculum]. We could then share those student's weak areas and determine a computer game for extra practice. It also worked for creating challenge activities and games for those students with math skills exceeding the classroom norms. (Vicki Peterson, Longfellow Teacher)

- Mobile app market potentially more responsive to “grassroots demand”

Do you take app "requests"? As [our school] transition[s] to iPads with our staff and students, I know we are going to think, "we wish there was an app for..." or "We wish there was an app that..." (I know after having my iPad for 2 months and researching teacher productivity apps and student learning apps I already have a big list of "I wish..." for apps (J. Davis, an Ohio teacher who found our Number Sense apps ((and us)) at the App Store).



Count Sort (+)



Options Instructions Information **New Problem**

6
12
10
8

Options Instructions Information **New Problem**

0

Game:

Min Chips: Max Chips:

Chip Placement:

Answer Choices:

Chip Style:

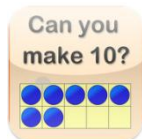
Chip Size:

Chip Color:

Common Core Standards K.CC.4, K.CC.5, K.NBT.1



10 Frame Fill (+)



Options Instructions Information

How many more to make 10?

7	8	9
4	5	6
1	2	3

Options Instructions Information

Set the 10 Frame to fill Sequentially or Randomly ⓧ

Sequential Random

Set Chips to Enlarge When Pressed

None Medium Large

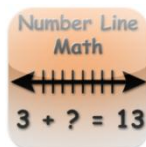
Set Chips to Enlarge When Pressed

1 Second 1.5 Seconds 2 Seconds

Common Core Standard K.OA.4



Number Line Math



Info Instructions Options **New Problem**

Number Line Math

$8 + \diamond = 17$

0 1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20

Info Instructions Options **New Problem**

Number Line Math

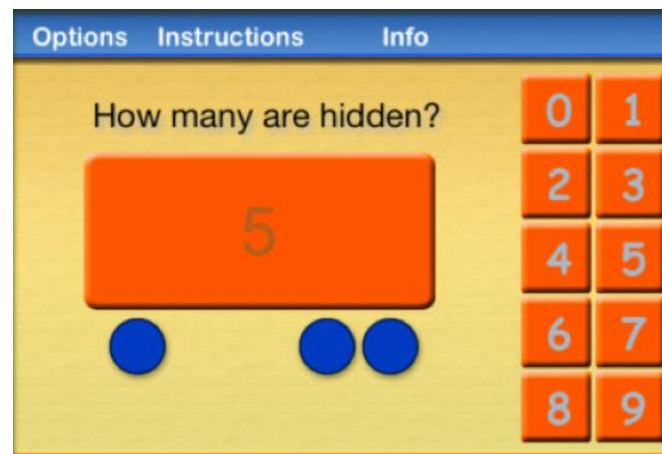
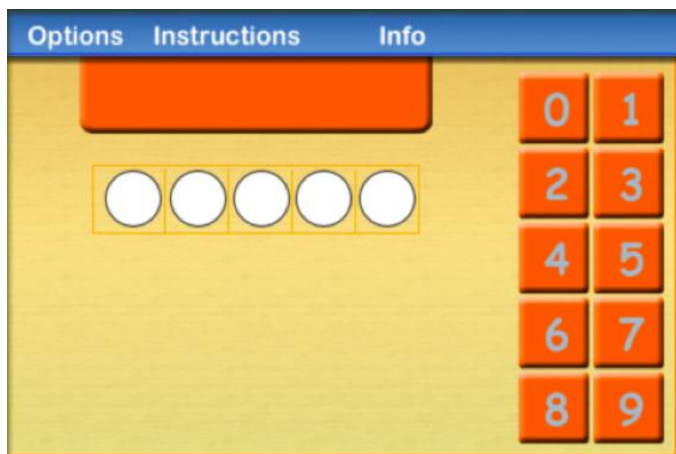
$8 + \diamond = 17$

0 1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20

Common Core Standards K.OA.1, 1.OA.5, 1.OA.6, 1.OA.7, 1.OA.8



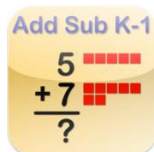
What's Hiding? (+)



Common Core Standards K.OA.1, K.OA.5, 1.OA.4, 1.OA.6



Add-Sub K-1



Info Instructions Options **New Problem**

$$\begin{array}{r} 5 \\ + 2 \\ \hline ? \end{array}$$

0 1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20

Info Instructions Options **New Problem**

$$4 + 6 + 3 = 7 + 6$$

0 1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20




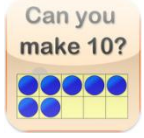
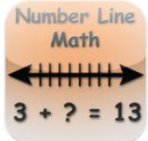



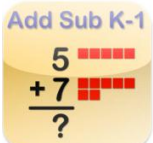
Common Core Standards K.OA (all), 1.OA.3, 1.OA.6, 1.OA.7, 1.OA.8



Creating apps with teachers: final reflections.

Q & A?

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(note....the "Plus" apps will also work on the iPhone/iPod Touch)

 <p>Count Sort (+)</p>	http://bit.ly/countsort	
	http://bit.ly/10framefill	 <p>10 Frame Fill (+)</p>
 <p>Number Line Math</p>	http://bit.ly/numberlinemath	
	http://bit.ly/whatshiding	 <p>What's Hiding? (+)</p>
 <p>Add Sub K-1</p>	http://bit.ly/addsubk1	