If you are carrying an iPad, iPhone, or iPod Touch please download the following apps for this presentation:

SAS® Math Stretch
(iPad only)
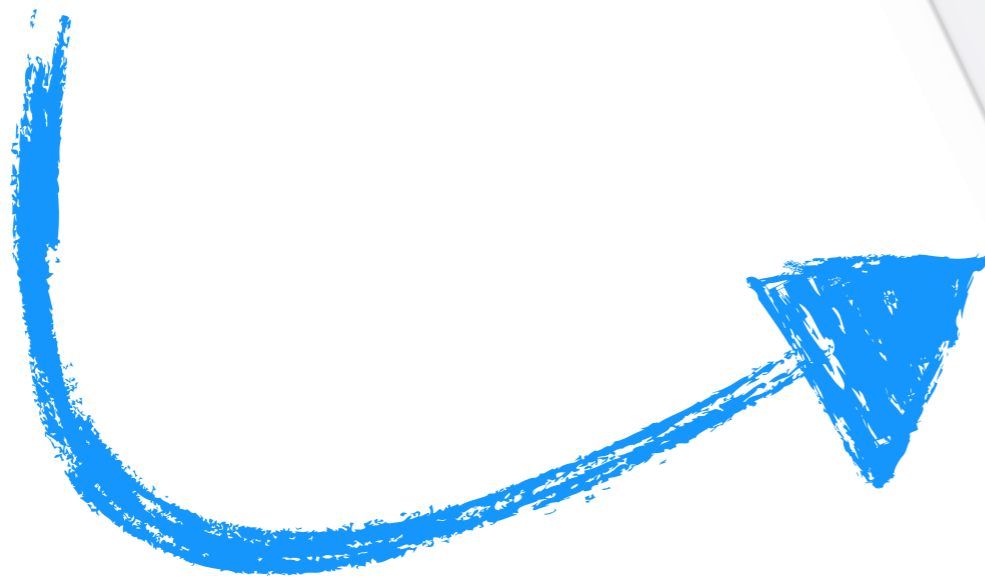
SAS® Flash Cards

SAS® Data Notebook
(iPad only)

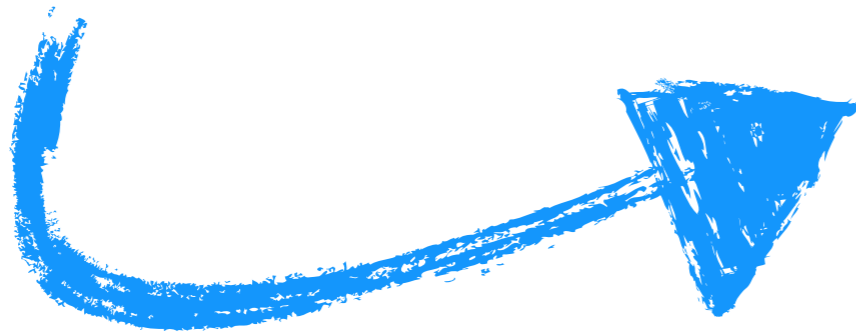Search 'SAS Institute' on the Apple iTunes App Store.

From Desktop to Mobile
with SAS® Curriculum Pathways®

Agenda

- SAS Curriculum Pathways

- Mobile apps for Elementary Math

- Other resources from Curriculum Pathways

- Conclude & Questions

- Demo & Hands On

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The Challenge:

Meeting the evolving needs of technology-infused learners...

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Initial Solution:
Blended Learning Model

"Blending" traditional classroom assignments with technology delivered by PC/Mac on desktops or laptops

Our approach:

- Interactive

- Standards-based

- Core disciplines

- Delivered online at no cost

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SAS® Curriculum Pathways®

Simplifying Expressions Using Order of Operations

USER INFO

PRACTICE

QUIZ

ENTER OR SELECT
PROBLEM

« **1** »

$8 + 3 \cdot 6$

START
WORK

ENTRY PALETTE

1	2	3	4	5
6	7	8	9	0

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|☐| ▤ ( ) (☐)

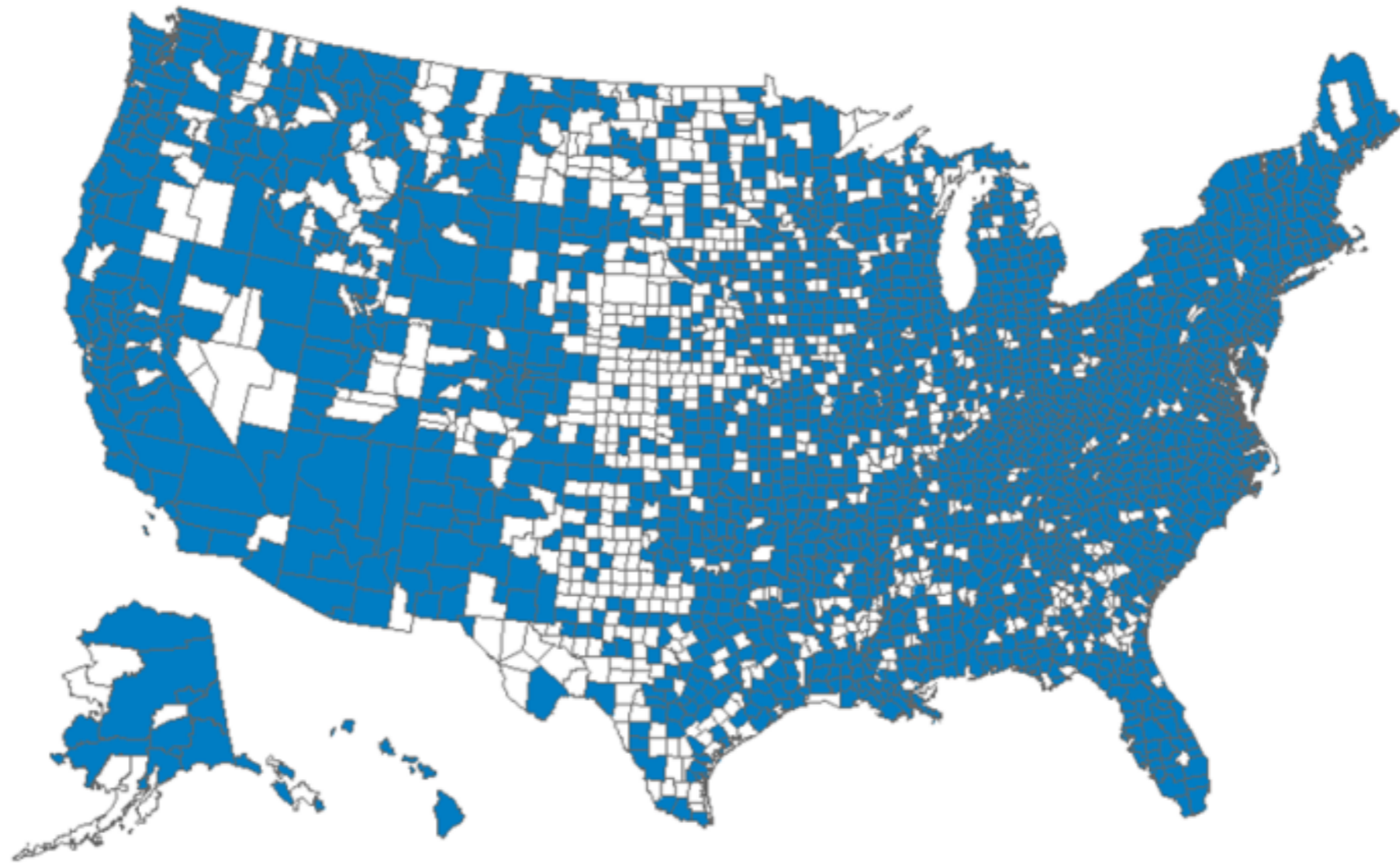☐∗10☐ √☐ ☐☐ ☐²

*x/y*z

To begin, select a provided problem or
enter your own. Then press Enter or click
START WORK.

☑ CHECK WORK   ▾ COPY TO ANSWER   COPY LINE   DELETE LINE   UNDO   REDO   CLEAR ALL

FINAL
ANSWER

CHECK ANSWERS

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SAS® Curriculum Pathways®


100,000+ teachers

The Challenge Evolves

- 125,000,000+ iPads (JAN 2013)

- 8,000,000+ iPads in schools (MAR 2013) (more iPads than Macs being delivered)

- Daily iPhone sales outpace the average daily birth rate, ~ 380,000 iPhones

- 500 Million+ iOS devices (JAN 2013)

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Apps as Tools

- More broadly, technology as a tool

- Pedagogy & Content integration

Technology

Learner

Pedagogy

Content

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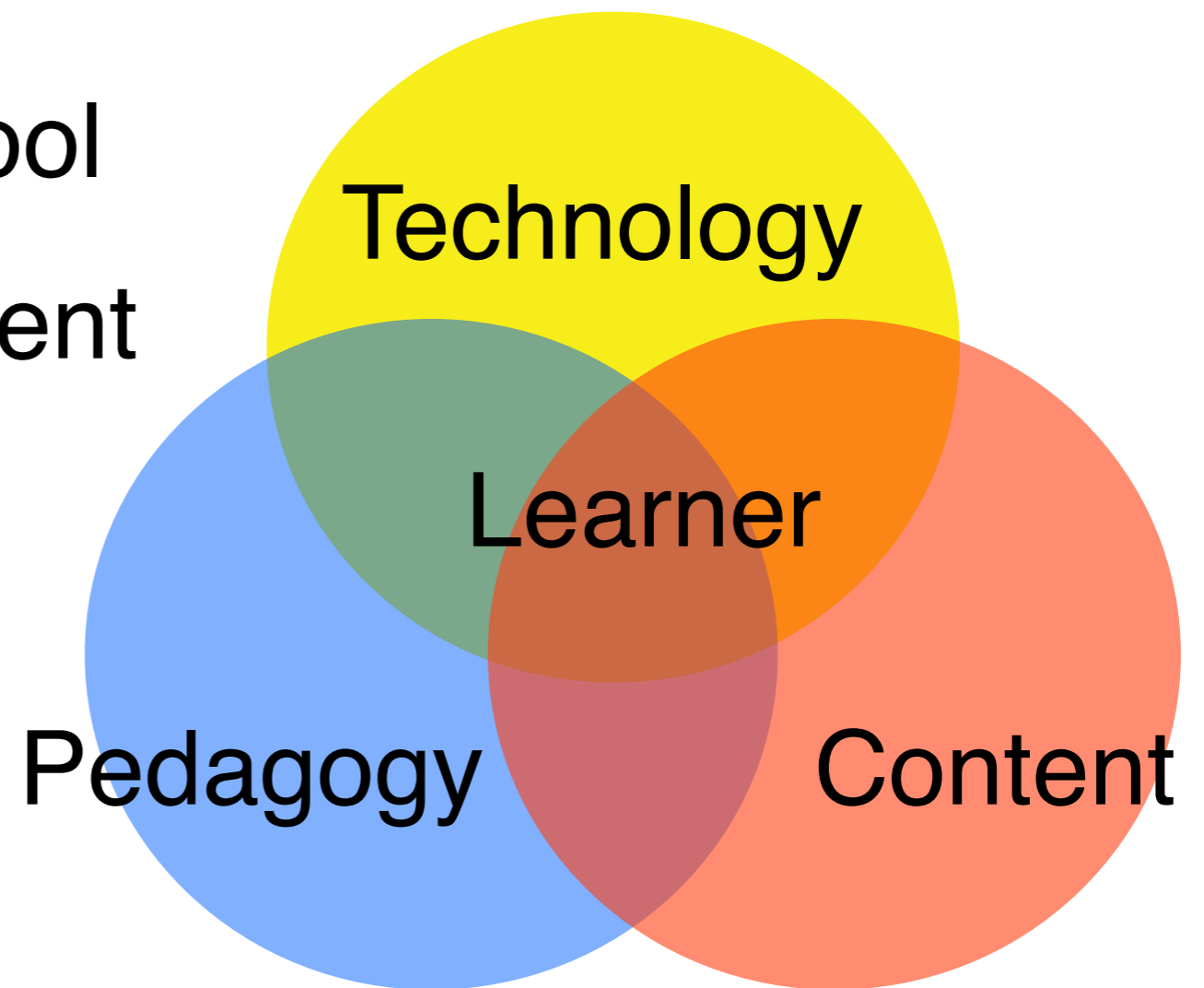
Mobile Learning @ SAS

- Focused on tools

- Developed in collaboration with teachers and students

- Available at no cost and ad free

- Integrated with SAS Curriculum Pathways in June 2013

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SAS Curriculum Pathways for Mobile + Math

123 Math Stretch

- Exercises and tools for elementary math

- Develop number literacy, number sense

- Exercises and routines for the beginning of classes (2-15 minutes)

- $103 + 79 = 100 + 70 + 3 + 9 = 100 + 70 + 12 = 182$

- Early research indicates increased likelihood to take Algebra I by 8th grade and improved PSAT math scores

Math Stretch Sample Activities

Ordering Numbers

Even / Odd
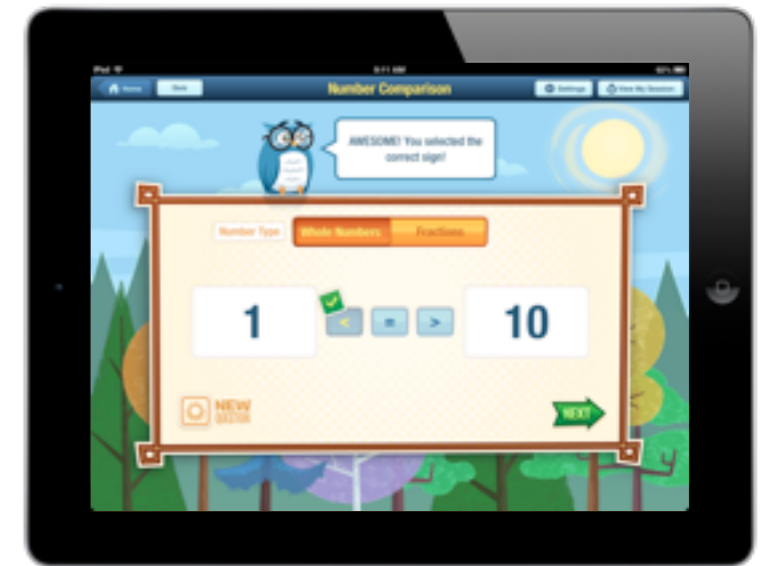
Number Comparison

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SAS Flash Cards

- For iPhone and iPad

- Initially released with iPad launch (April 2010)

- 85,000+ downloads

Available on the App Store

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SAS Flash Cards History
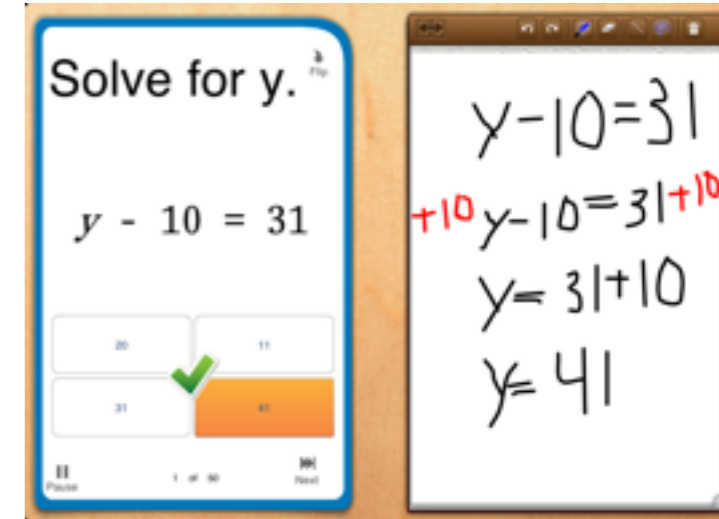
v1.1   v1.2   v1.3   v2.1   v2.2
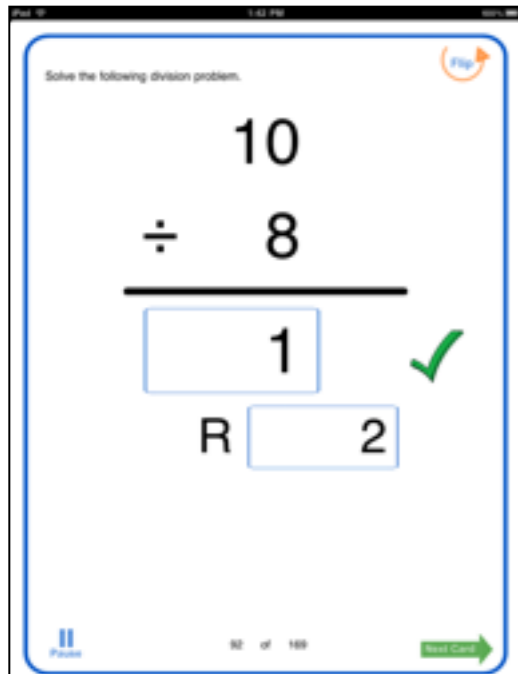
CRPs: Customer Reported Problems

- Build your own decks (v1.2)

- Quiz mode (v1.3)

- Email results (v1.3)

- Audio (v2.1)

- Sharing (v2.2)

- Upload spreadsheets (v2.3)

- Button sizes (v2.4)

- Ratings (v2.4)

- Change titles (v2.5)

- Improve Sharing (v2.5)

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SAS Flash Cards Autoplay
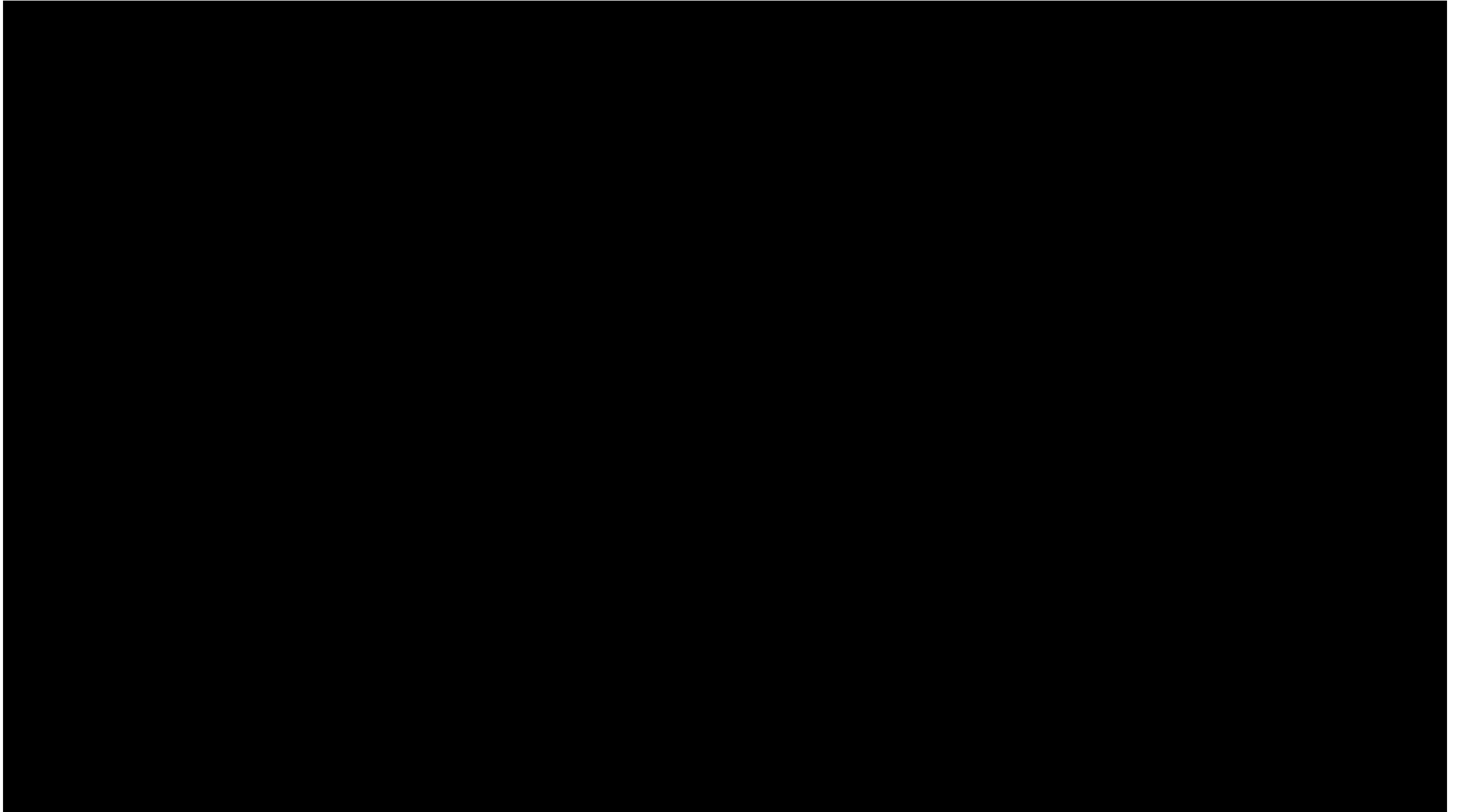
Three Case Studies

- 1:1 iPad implementation
- Special Education
- NC School for the Blind

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1:1 School Implementation
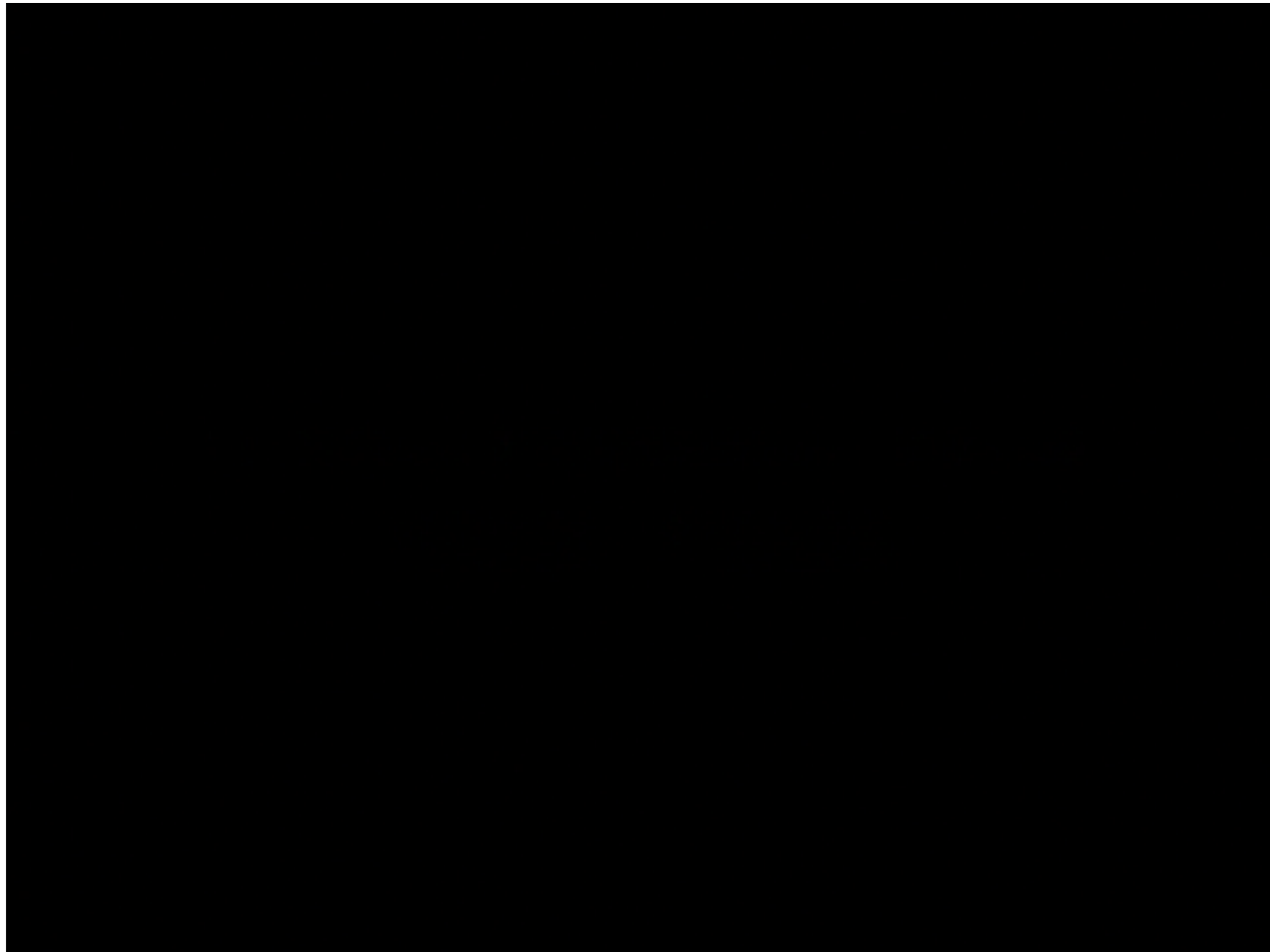
- 2 decks in top 10 downloads

- 10,000+ total downloads

- 30+ countries

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Special Education Implementation

Accessibility Implementation

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Accessibility Implementation
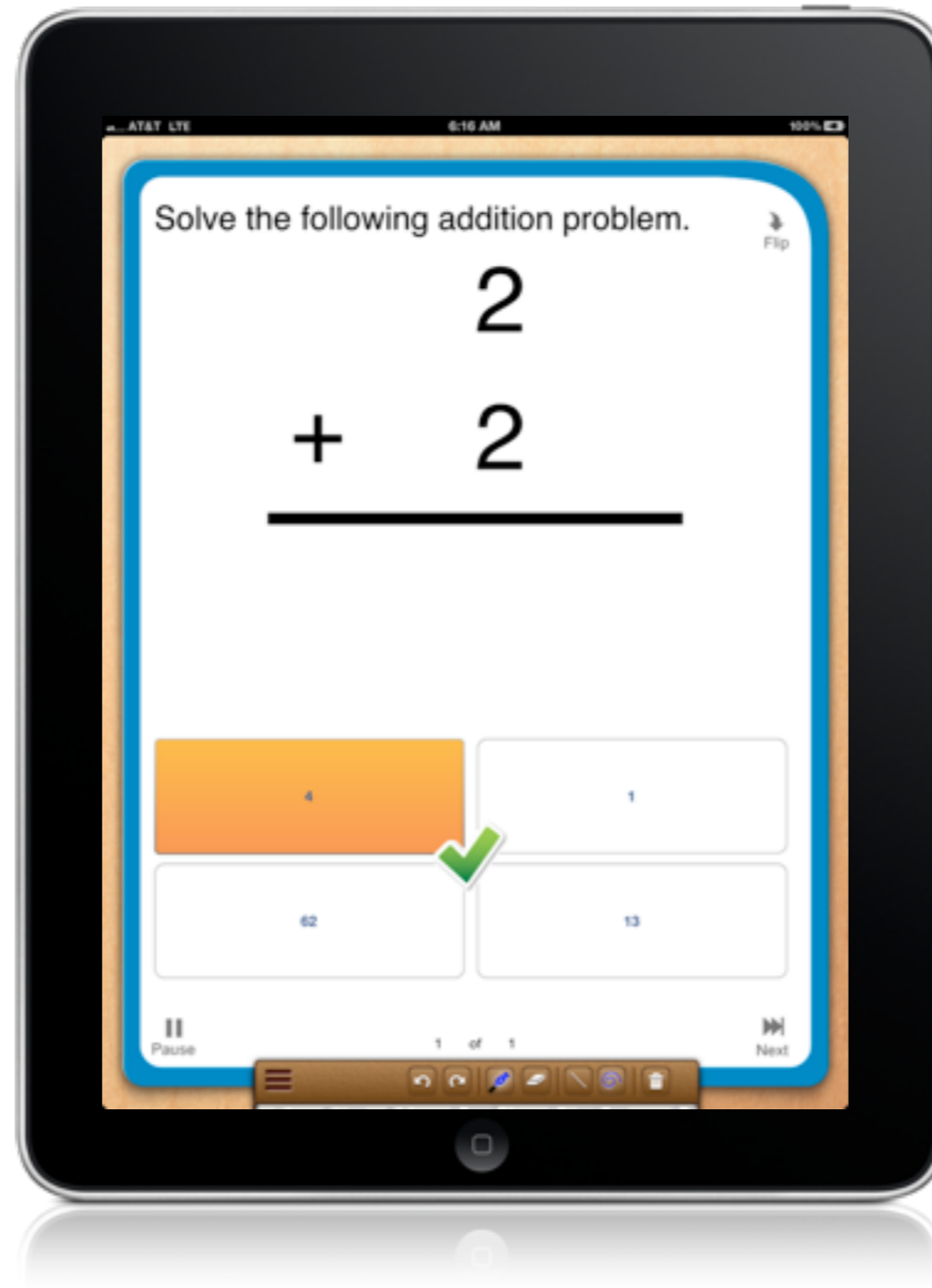
Data Notebooks

- Supports student implementation of data notebooks

- Follows Baldrige Performance Excellence Program (NIST)

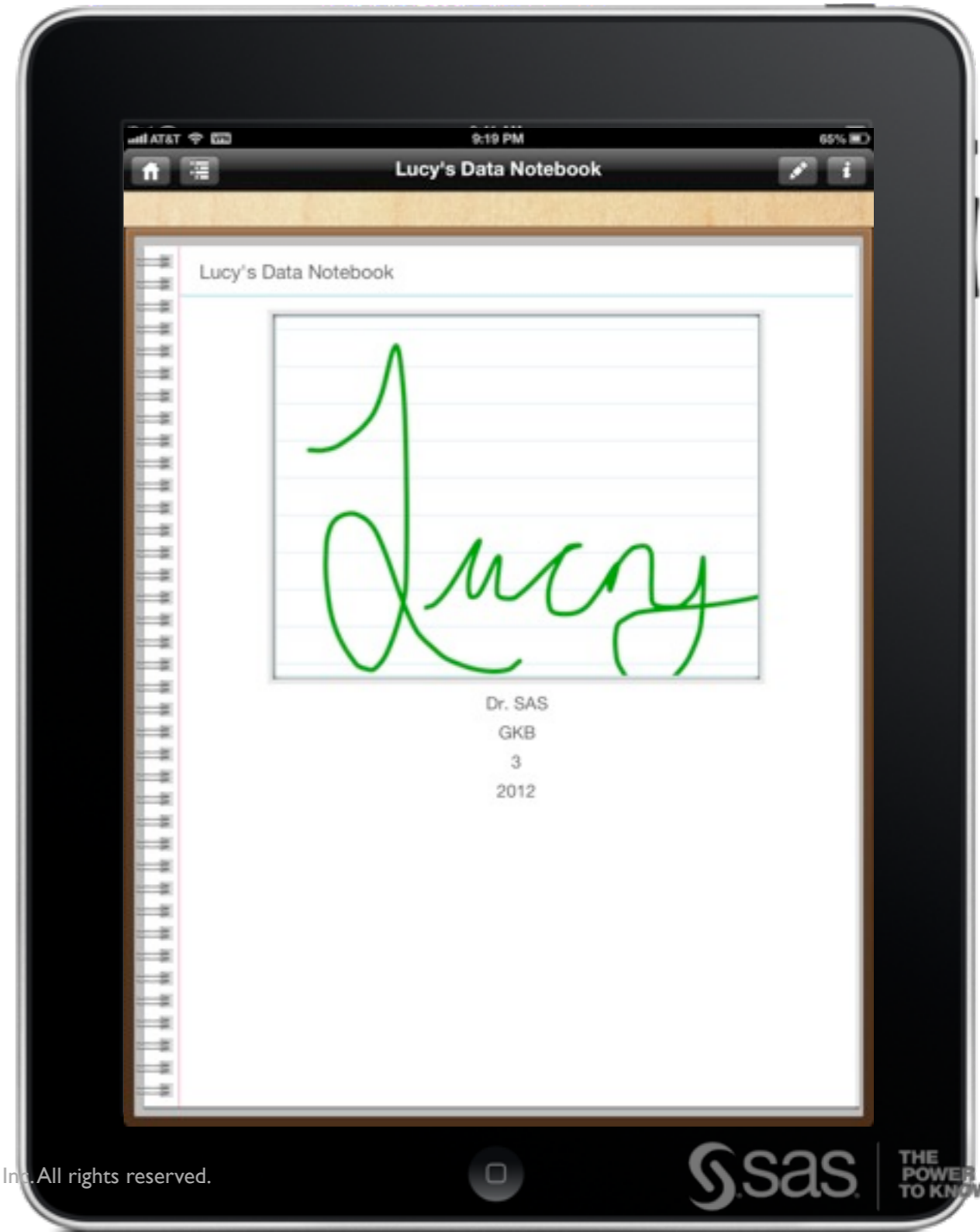- Supports SRL through goal setting, monitoring, and reflection
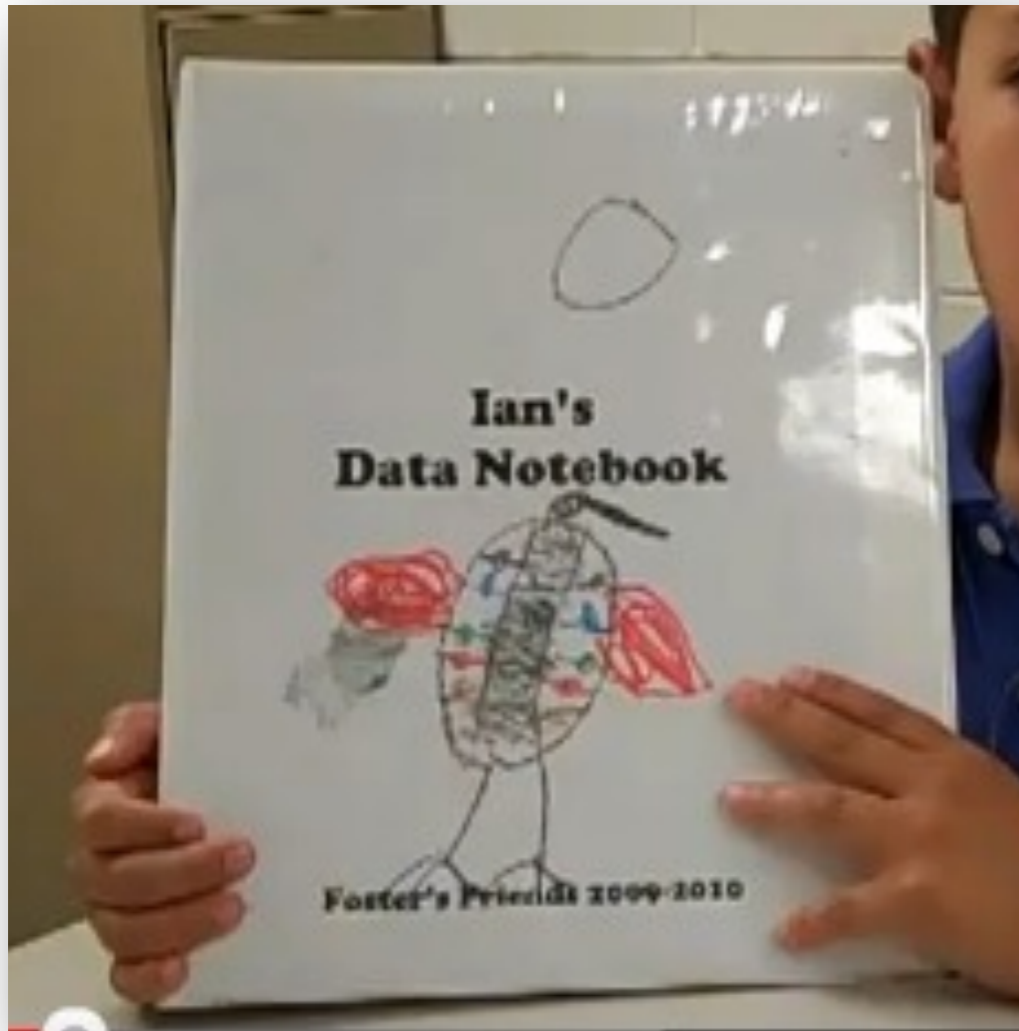
- JEO/GKB (IN) development partner

Data Notebooks

2010

2012

Cover Page

Mission Statement
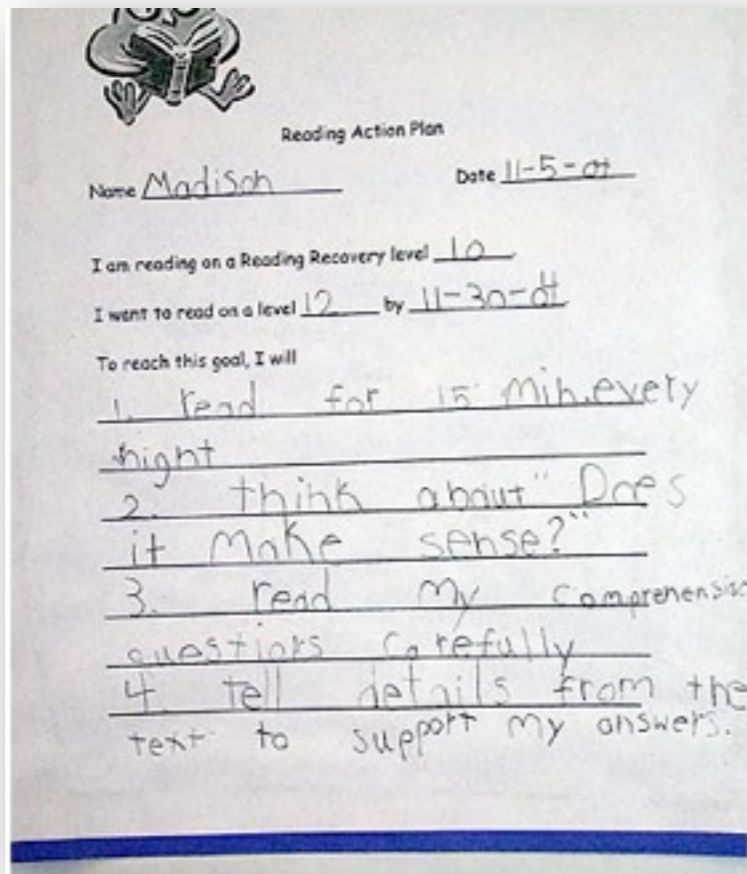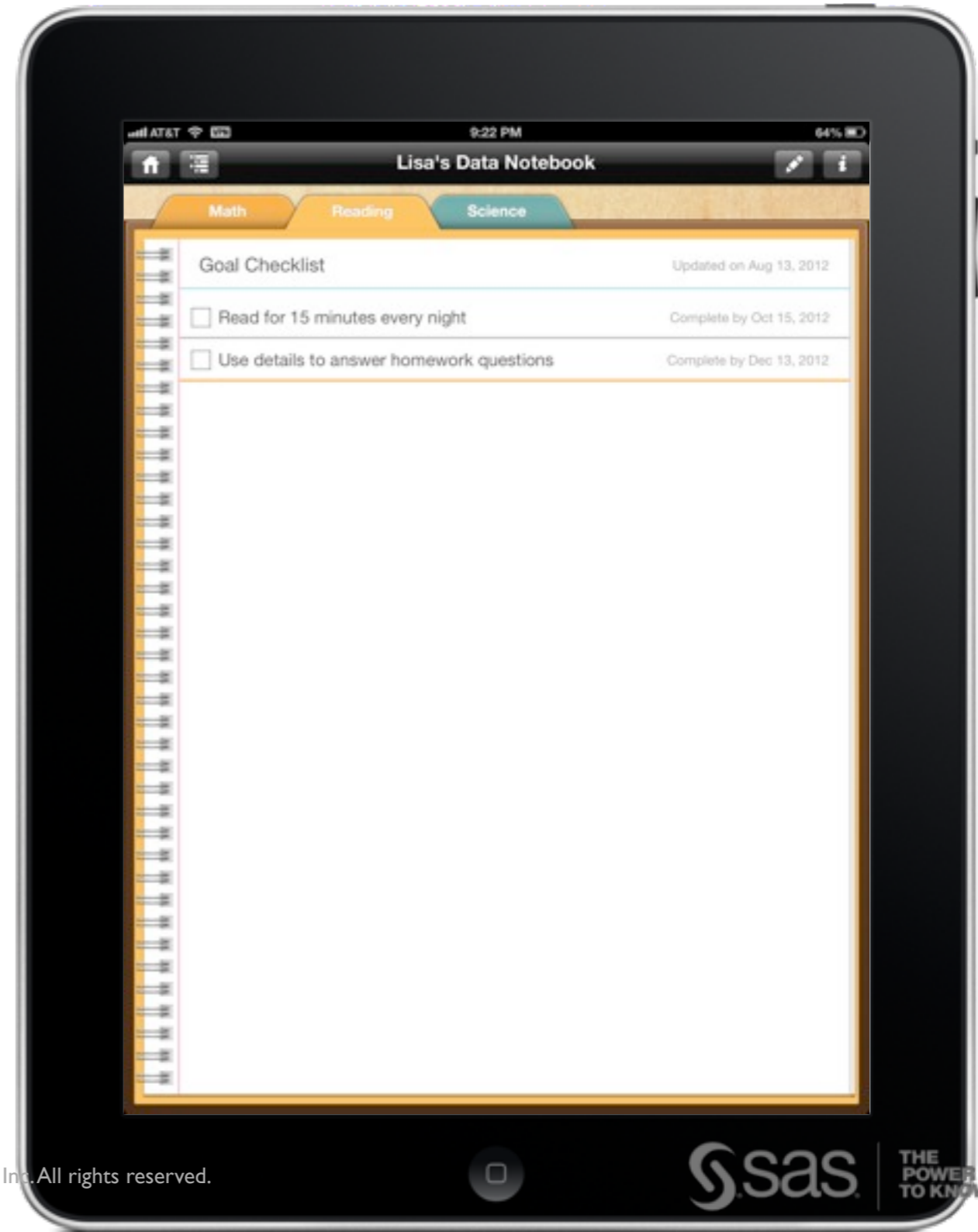
Goal ~~Statement~~ Checklist

Reading Action Plan

Name MadiSon   Date 11-5-01

I am reading on a Reading Recovery level 10

I want to read on a level 12 by 11-30-01

To reach this goal, I will

1. read for 15 min every night
2. think about "Does it make sense?"
3. read my comprehension questions carefully
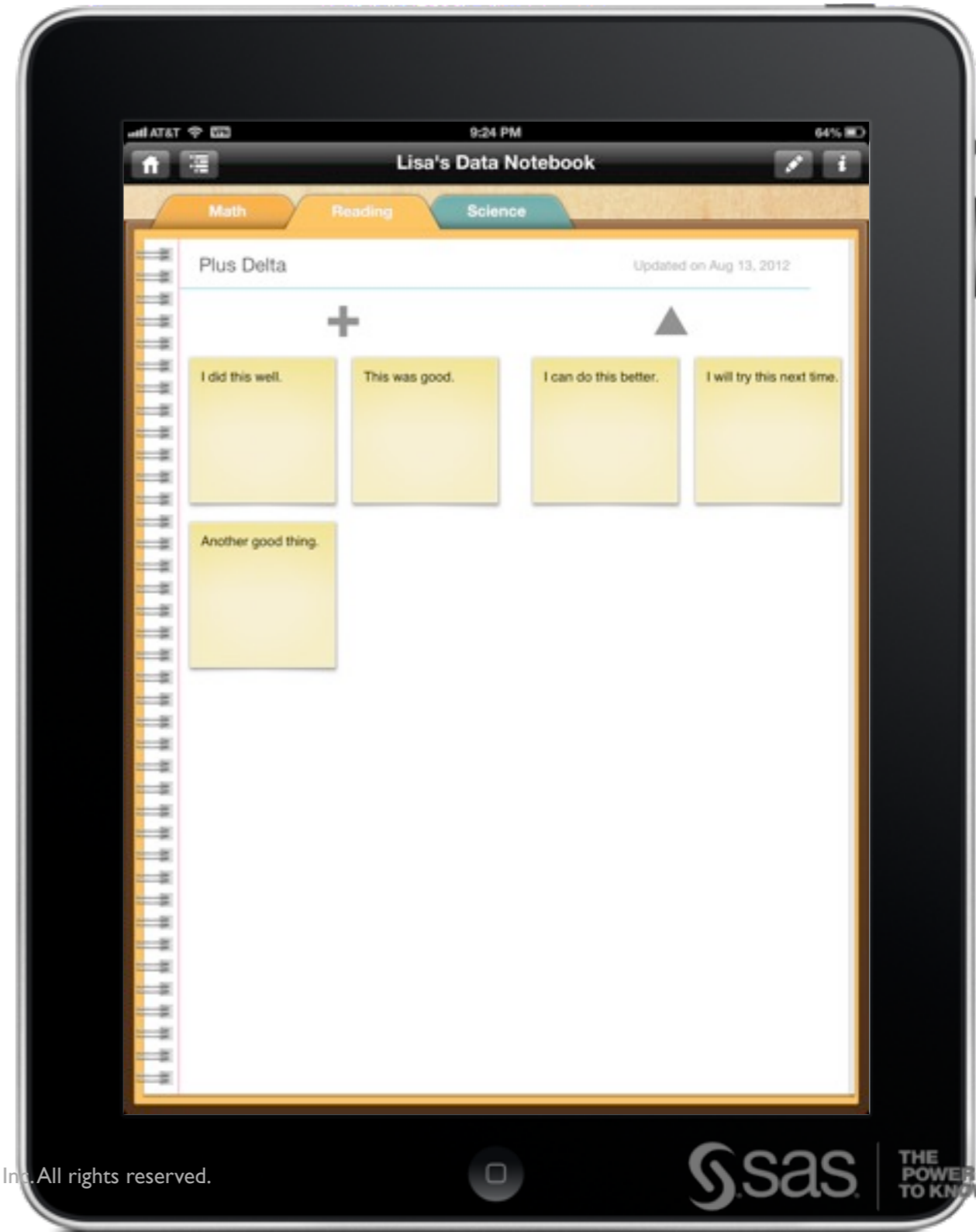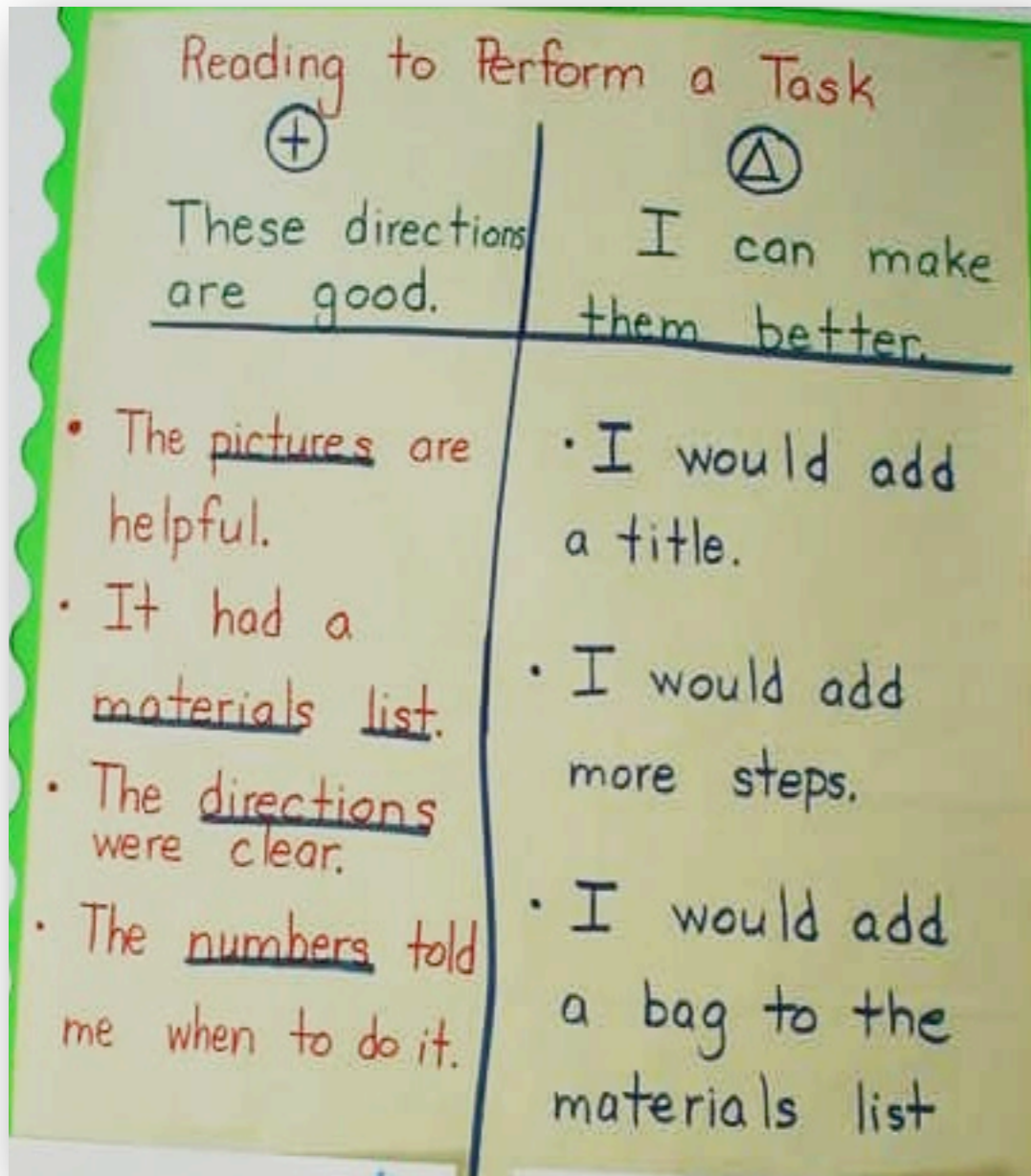4. tell details from the text to support my answers.

Lisa's Data Notebook

Math   Reading   Science

Goal Checklist   Updated on Aug 13, 2012

☐ Read for 15 minutes every night   Complete by Oct 15, 2012

☐ Use details to answer homework questions Complete by Dec 13, 2012

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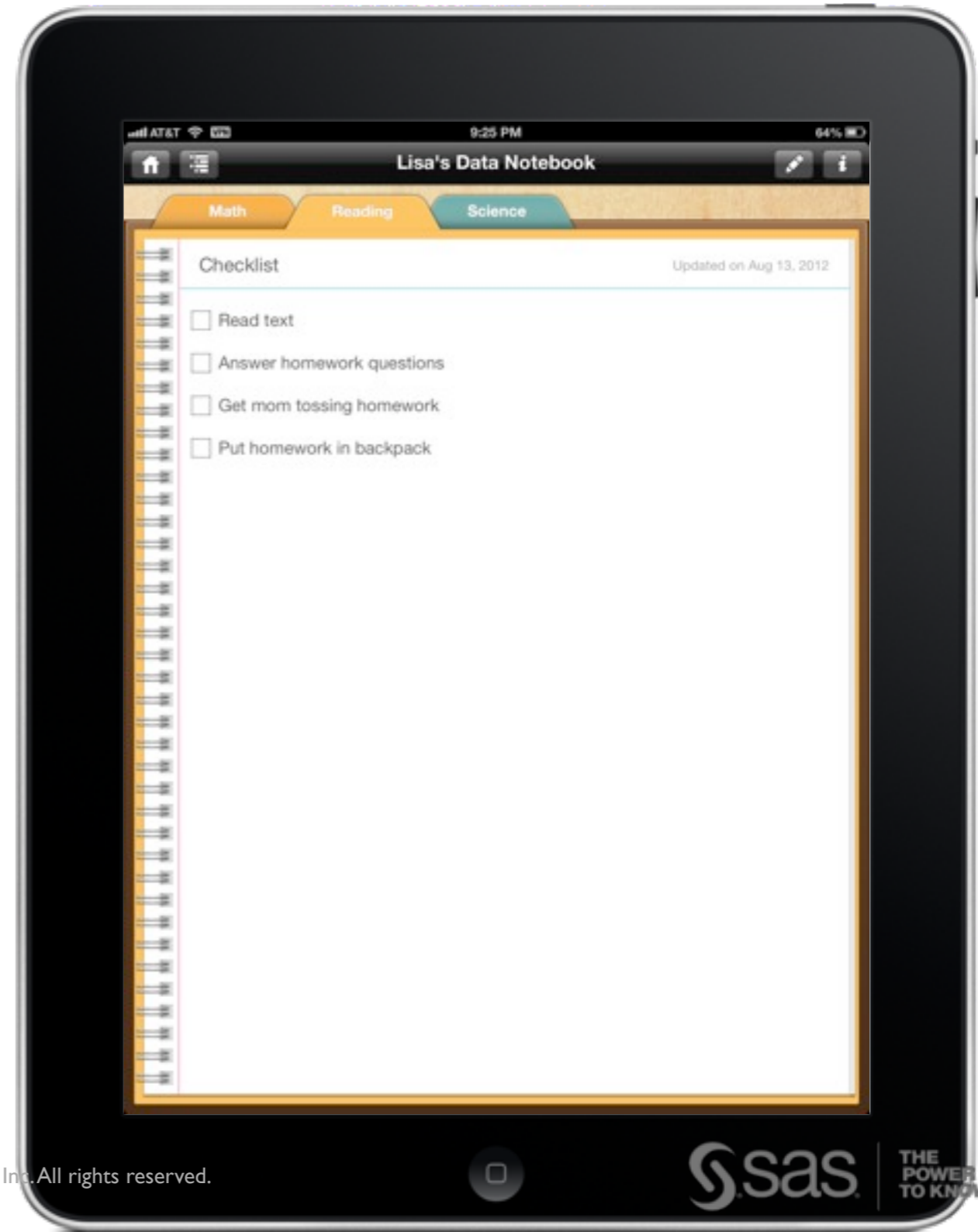
Histogram
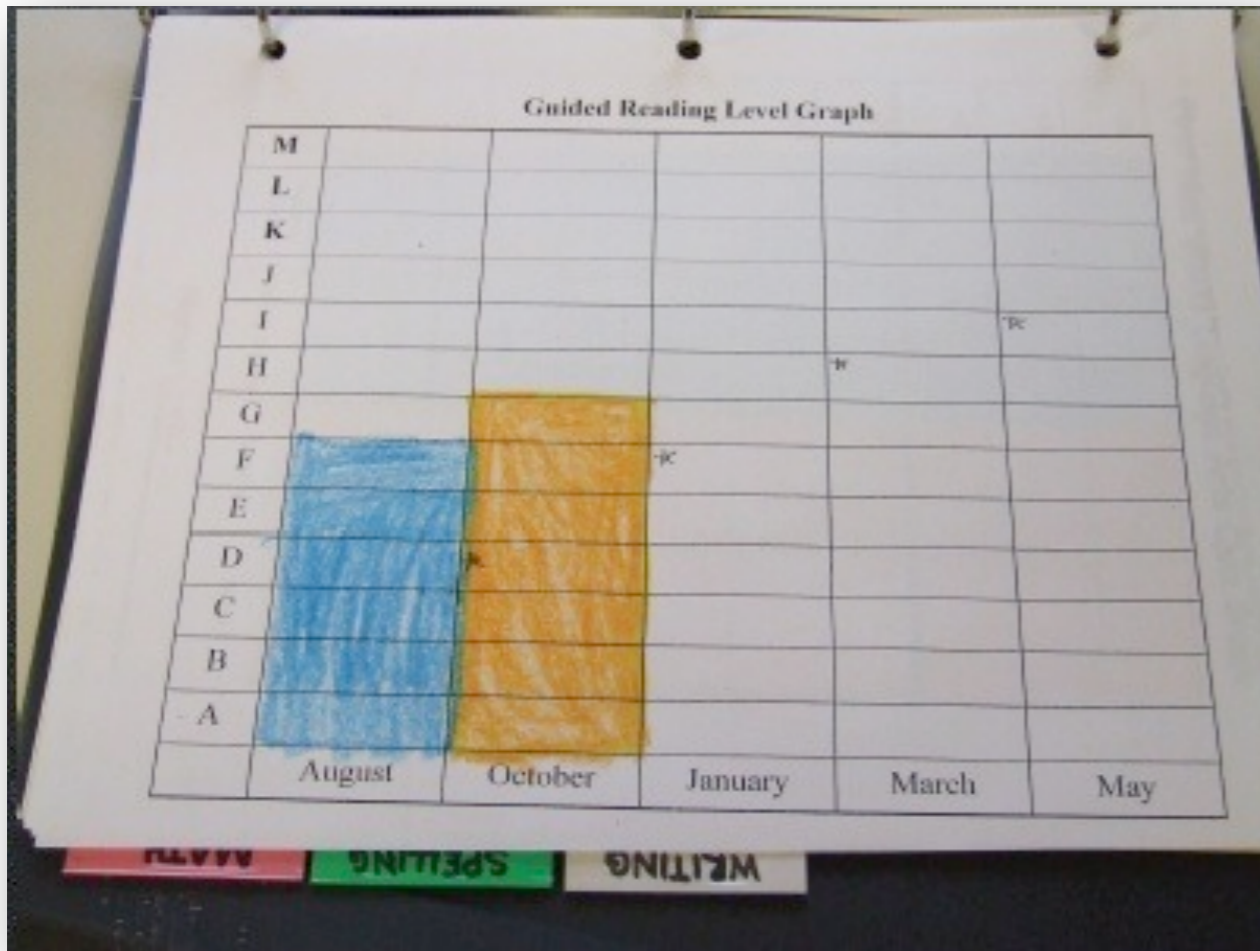
Plus / Delta

Checklist

Checklist

Purpose: The purpose of a checklist is to help keep track of progress in completing tasks.
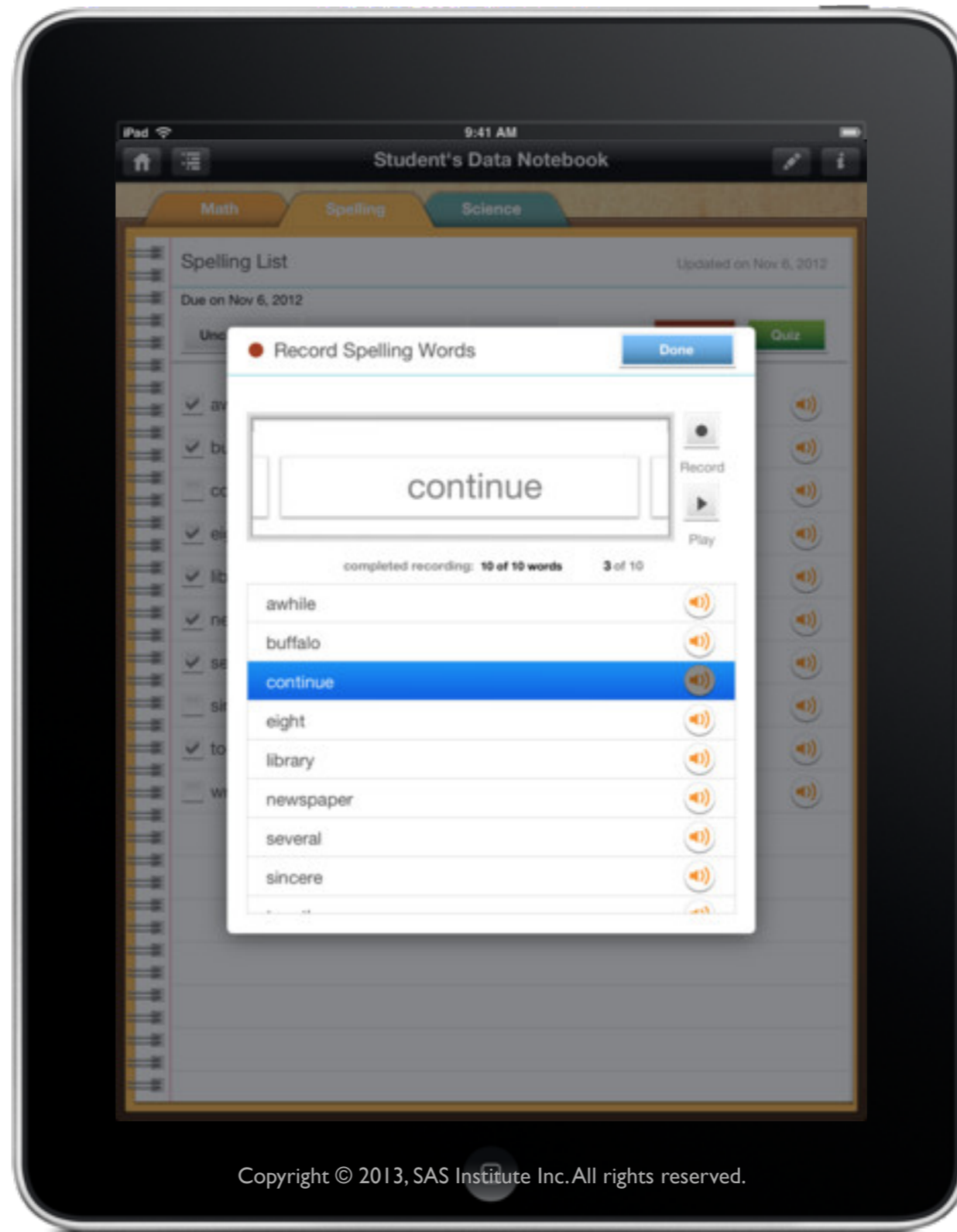
Centers	When Completed
Word Work	
Poem	
Writing	
Listening	
Game	
Word Wall	
Drama	
Free Choice	

Work Completed with the Substitute Teacher

Subject	None	Some	All
Warm-up			
Reading work			
Math work			
Writing			
Science			
Social Studies			

Lisa's Data Notebook

Math | Reading | Science

Checklist — Updated on Aug 13, 2012

☐ Read text

☐ Answer homework questions

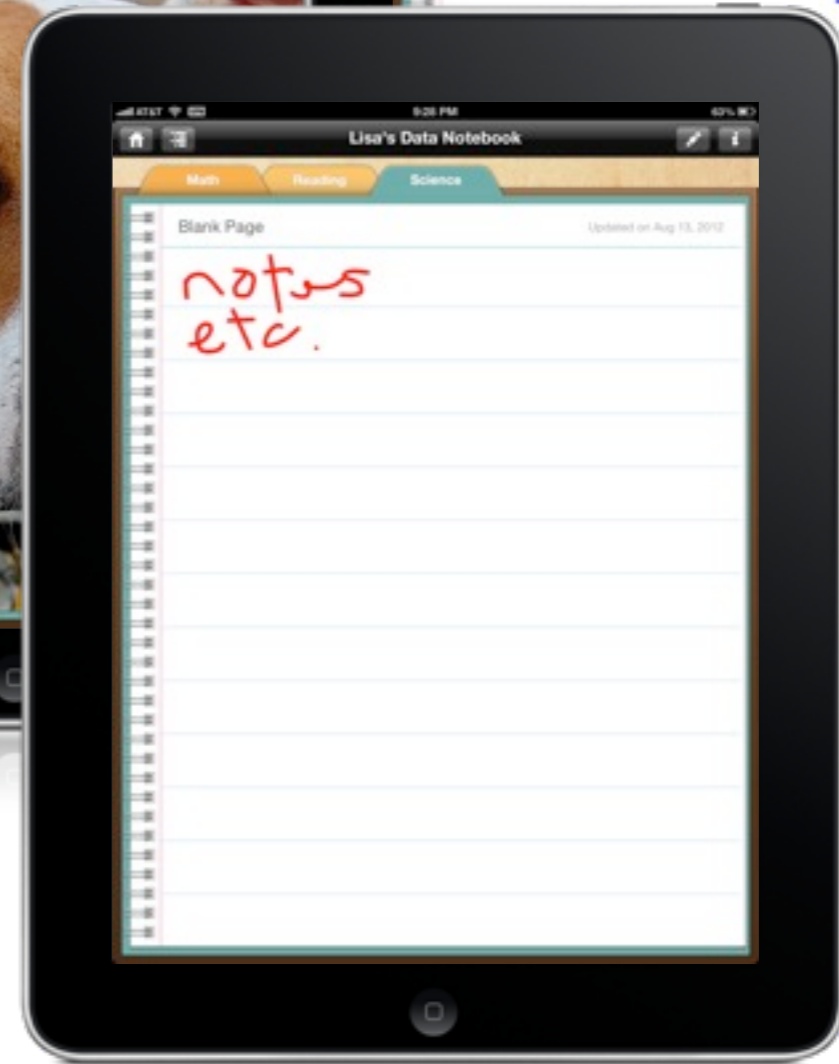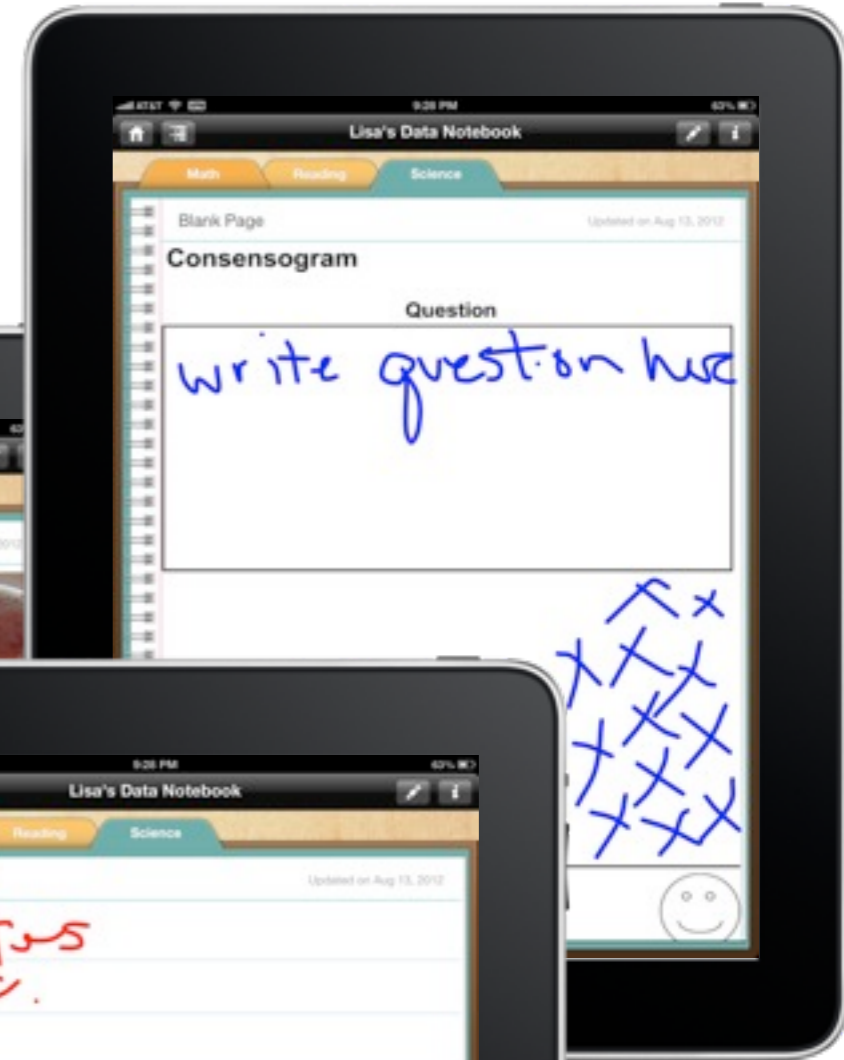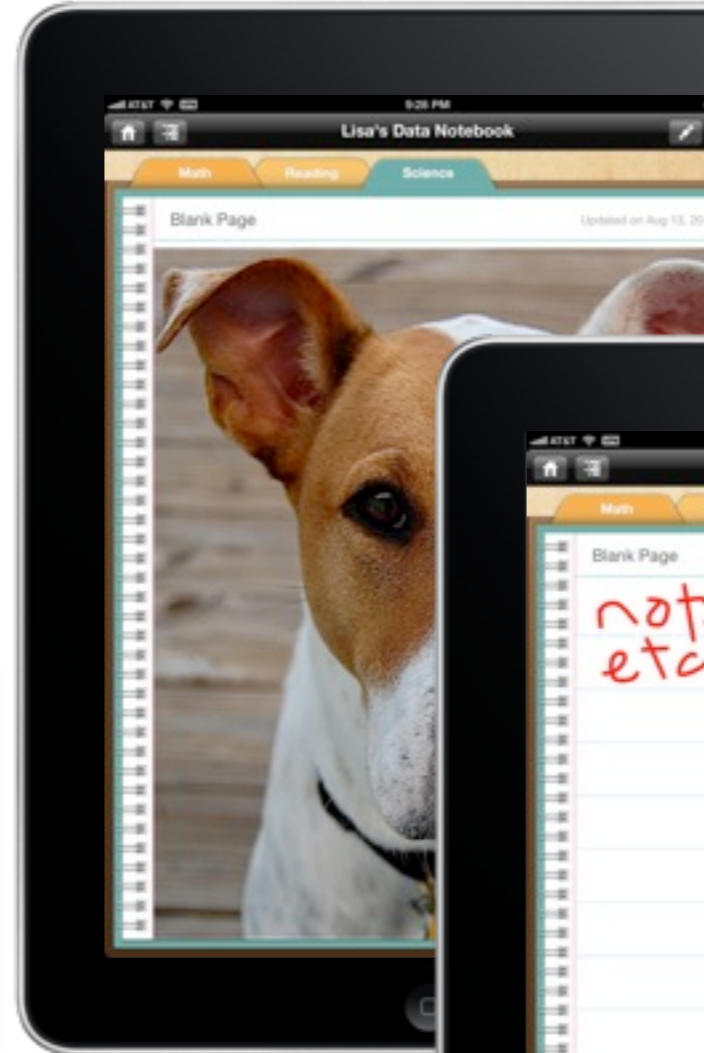☐ Get mom tossing homework

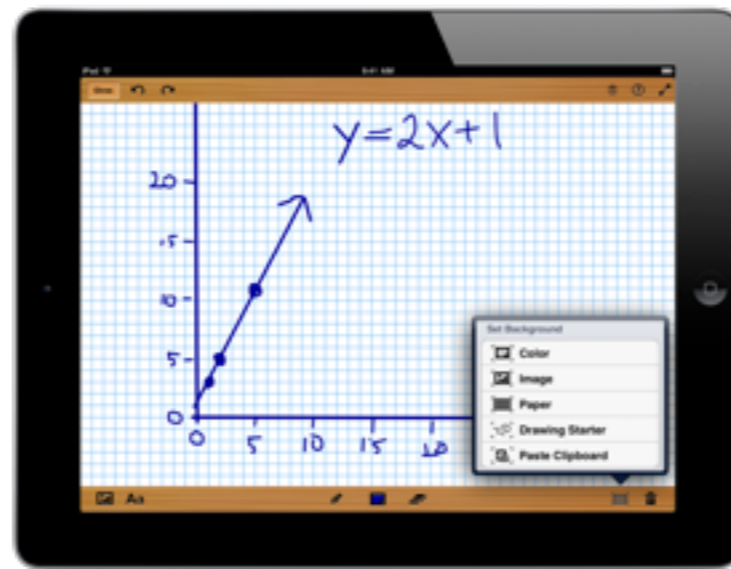☐ Put homework in backpack

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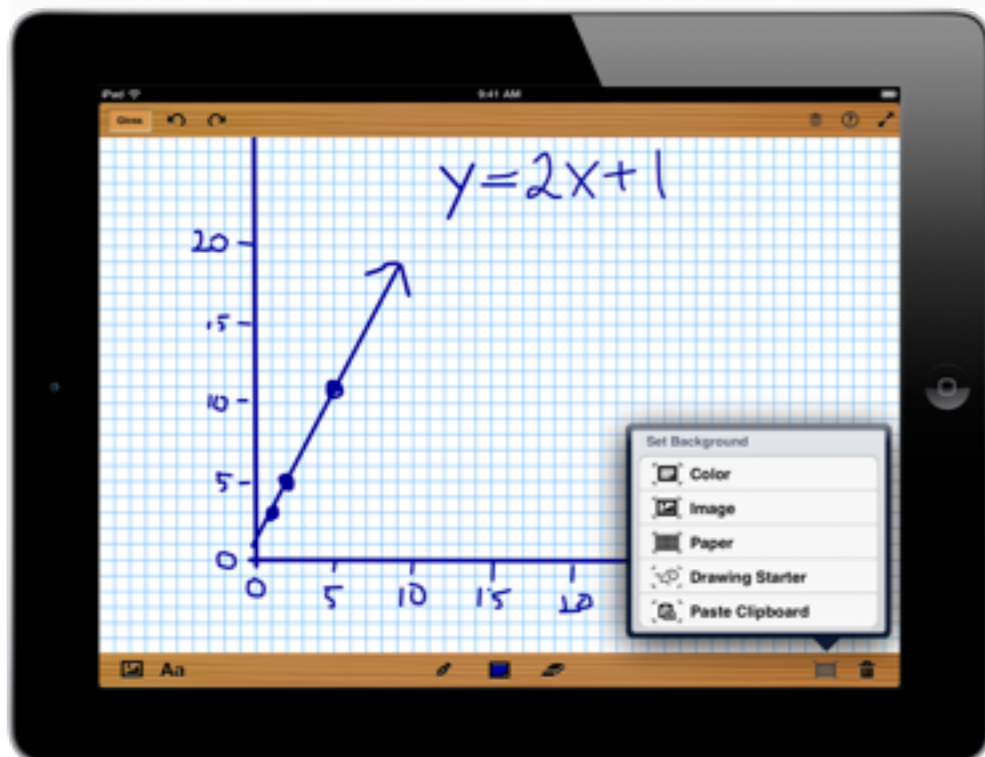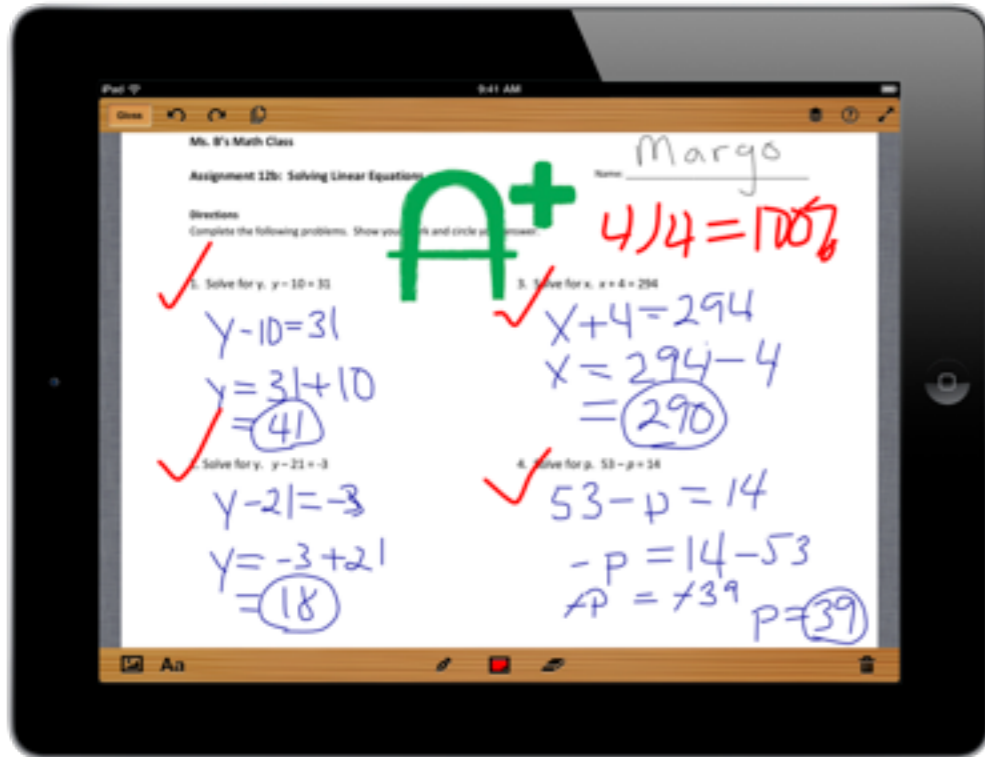# Spelling

Text & Scratch

… but wait, there's more

Read Aloud

- A reading app for emergent and early readers

- Combines books with interactive exercises

- Supports development of print knowledge, letter identification, phonics, spelling, and more

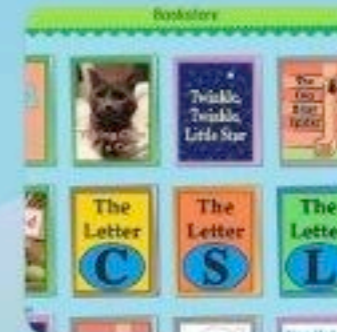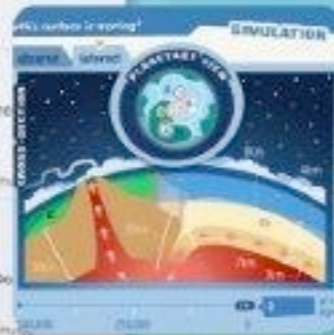- Multiple modes: Read to Me, Help Me Read, & Read by Myself

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SAS Gloss

1,200+ no-cost interactive resources...
used in elementary schools nationwide!

Conclusion

- SAS provides a wide range of engaging resources for math educators

- From desktop to mobile & from class to home

- No cost, no ads... just learning

QUESTIONS

then demos

Ssas. | THE POWER TO KNOW.
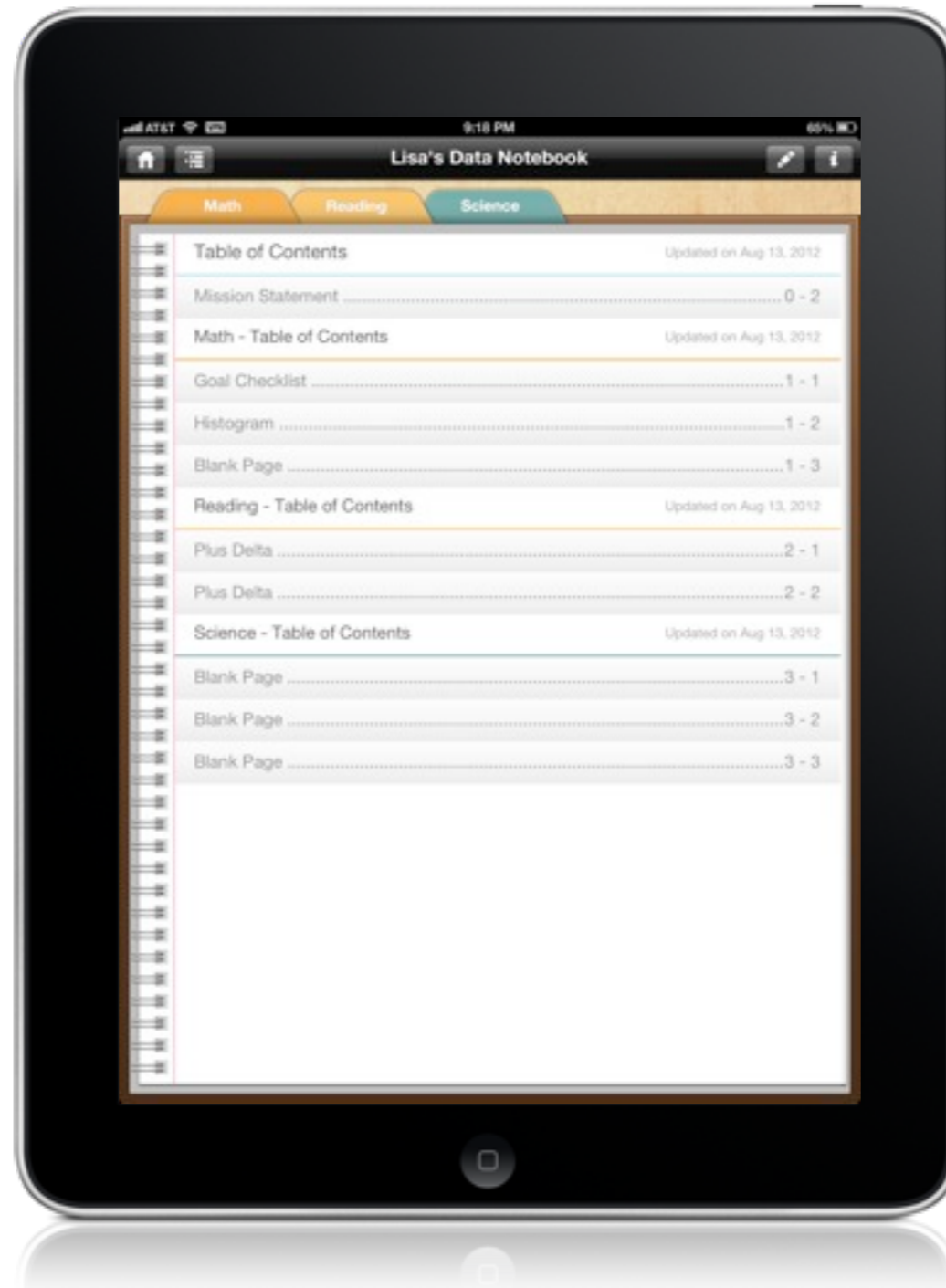
Math Stretch Demo & Hands On

Flash Cards Demo & Hands On

- Your turn to build a deck.

Data Notebook Demo & Hands On

Data Notebook Demo & Hands On

- Create a new data notebook

- Add a 'Math' section

- Add a mission statement to the main section

- In Math section

  - add a histogram with 3 test scores

  - add a Scratch page; Set background to graph paper

  - add a plus/delta page to reflect on a math unit

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Really Concluding

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- ralph.moore@sas.com

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- sascurriculumpathways.com

- @saseducator

- facebook.com/sascurriculumpathways

Thank you!