

# *Welcome to*

## **An Arizona First: The New Galileo® Digital Curriculum Platform in Action**

Co-Hosted by



K-12 Seminar  
November 14, 2016

# Welcome and Opening Remarks



**Camille Casteel, Ed.D.**  
*Superintendent*  
Chandler Unified School District

# Introductions



**Jason K. Feld, Ph.D.**  
*Vice President of Corporate Projects*  
Assessment Technology Incorporated

# The Galileo Digital Curriculum Platform: Technology Supporting Arizona Educators in the Digital Age



**Sarah Callahan Estrada, Ph.D.**

*Senior Research Scientist*

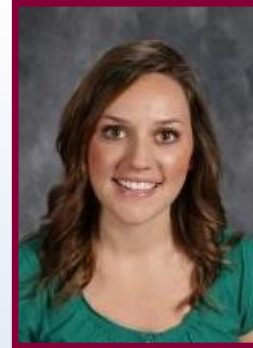
Assessment Technology Incorporated



# Galileo K-12 Online in Chandler Unified School District



**Janice Bourbon**  
Academic Coach  
Chandler Unified School  
District



**Amber Childers**  
Assessment Specialist  
Chandler Unified School  
District

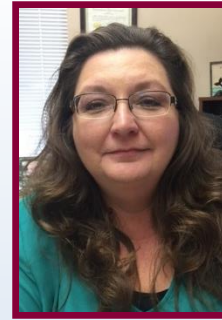


**Cristen Marceau**  
Instructional Technology  
Chandler Unified School  
District

# AZ Round Table Panel – Goals, Challenges, Solutions, and Next Steps



**Matt Strom, Ed.D.**  
Assistant Superintendent  
Chandler Unified School  
District



**Renee Sweeden**  
Director of Curriculum  
Chandler Unified School  
District



**Tara Guerrero**  
District Math Coordinator  
Crane Elementary School  
District



**Mike Hoffman, Ed.D.**  
Director of Curriculum,  
Instruction, and Technology  
Crane Elementary School  
District

# AZ Round Table Panel – Goals, Challenges, Solutions, and Next Steps



**Dennis Koch**

Director of Assessment  
and Data  
Maricopa Unified School  
District



**Wade Watson**

Director of Curriculum and  
Instruction  
Maricopa Unified School  
District

# The Galileo Digital Curriculum Platform: Technology Supporting Arizona Educators in the Digital Age

**Presented by Sarah Callahan Estrada, Ph.D.**

*Senior Research Scientist*

Assessment Technology Incorporated





# The Galileo Digital Curriculum Platform

Technology Supporting Arizona  
Educators in the Digital Age

**Presented by**

**Sarah Callahan Estrada, Ph.D.**

*Senior Research Scientist*

Assessment Technology Incorporated



# Why Implement a Digital Curriculum Platform?

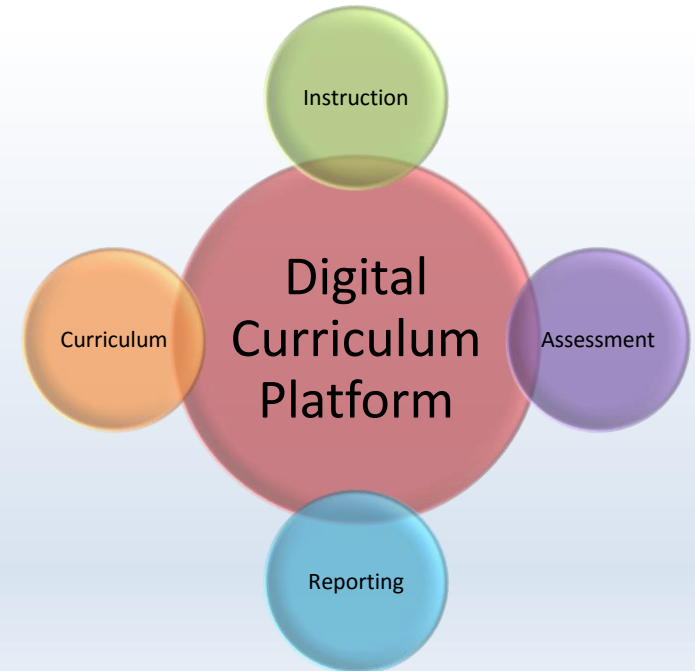
- **Curriculum developers** desire robust technology to build standards-aligned units including quality digital content
- **Educators** desire a digital hub to collaborate, plan, and access standards-based curriculum, instructional, and assessment content



- **Students** desire online instructional materials and information about their progress to help them learn
- **Parents** desire easy digital access to curriculum, resources, and information about student progress to help support student learning at home

# Overview- The Galileo Digital Curriculum Platform

- Enables rapid development and use of multi-media digital curriculums, units, lesson plans, instructional materials, and assessments
- Supports Arizona standards alignment in all grades and content areas
- Fully integrated and included at no additional cost with broader Galileo K-12 Online assessment and reporting system



- Built on the foundation of the ATI research and development program
- Developed in collaboration with educators across Arizona

# Innovative Builder Tools for the Digital Age

## Digital Curriculum Builder

Create a series of online units representing a course or pacing guide and including vetted digital instruction and assessment resources



## Lesson Plan Builder

Organize digital content to plan instruction and assessment for a topic



## Dialog Builder

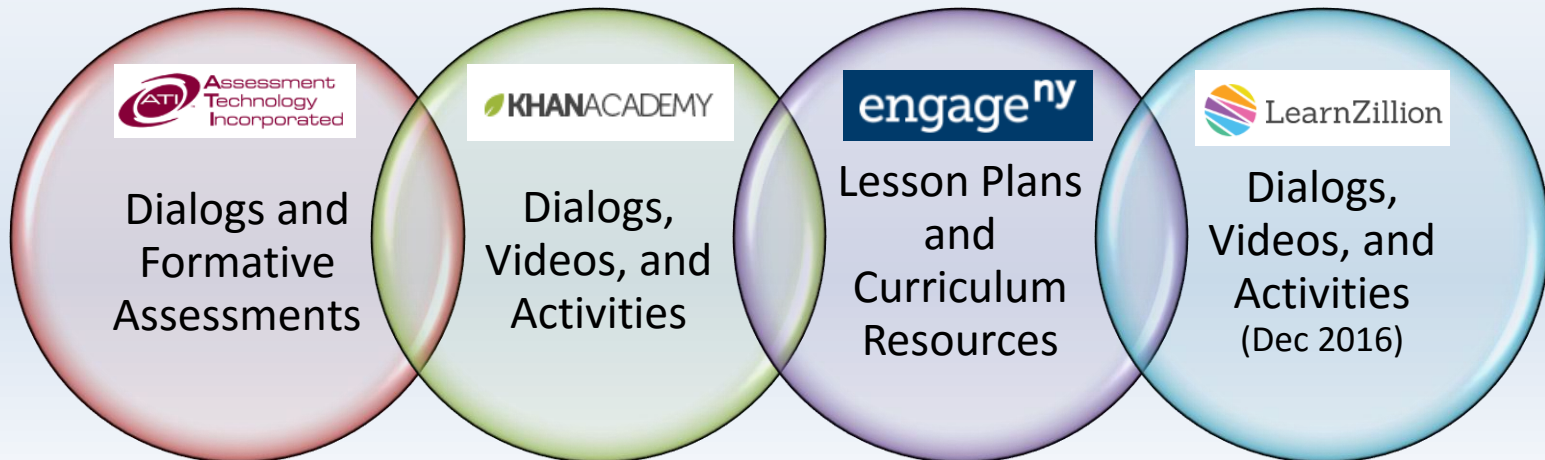
Create online interactive multi-media lessons and assignments integrating instruction, assessment, and teacher-student communication

### Builders Support Integration Of:

- Slides organizing content (text, images, videos)
- Standards
- Instructional materials
- Assessment content

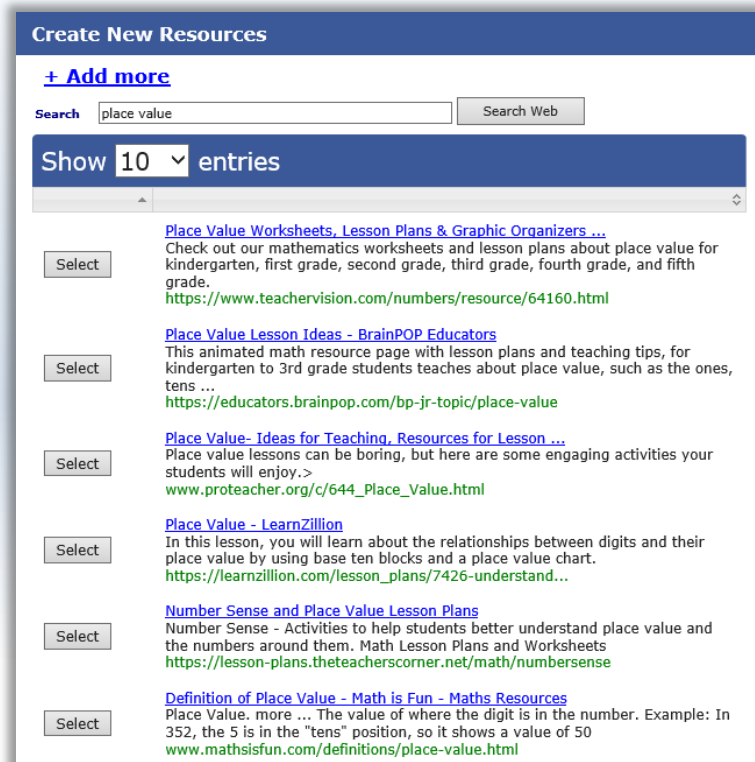
# Valuable Digital Content at Your Fingertips

A continually growing searchable bank of vetted Arizona standards-aligned instruction and assessment materials



# Rapid Integration of Existing and New Content

**Resource Builder** supports integration and sharing of weblink or file resources purchased, identified, or created by the District



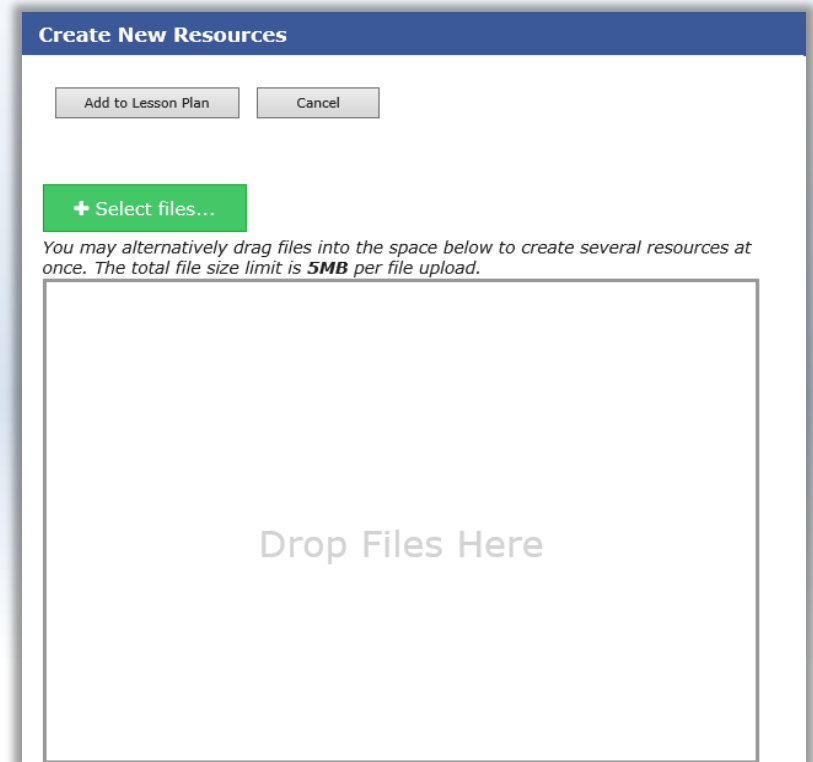
**Create New Resources**

[+ Add more](#)

Search

Show  entries

- [Place Value Worksheets, Lesson Plans & Graphic Organizers ...](#)  
Check out our mathematics worksheets and lesson plans about place value for kindergarten, first grade, second grade, third grade, fourth grade, and fifth grade.  
<https://www.teachervision.com/numbers/resource/64160.html>
- [Place Value Lesson Ideas - BrainPOP Educators](#)  
This animated math resource page with lesson plans and teaching tips, for kindergarten to 3rd grade students teaches about place value, such as the ones, tens ...  
<https://educators.brainpop.com/bp-jr-topic/place-value>
- [Place Value- Ideas for Teaching, Resources for Lesson ...](#)  
Place value lessons can be boring, but here are some engaging activities your students will enjoy.>  
[www.proteacher.org/c/644\\_Place\\_Value.html](http://www.proteacher.org/c/644_Place_Value.html)
- [Place Value - LearnZillion](#)  
In this lesson, you will learn about the relationships between digits and their place value by using base ten blocks and a place value chart.  
[https://learnzillion.com/lesson\\_plans/7426-understand...](https://learnzillion.com/lesson_plans/7426-understand...)
- [Number Sense and Place Value Lesson Plans](#)  
Number Sense - Activities to help students better understand place value and the numbers around them. Math Lesson Plans and Worksheets  
<https://lesson-plans.theteacherscorner.net/math/numbersense>
- [Definition of Place Value - Math is Fun - Maths Resources](#)  
Place Value. more ... The value of where the digit is in the number. Example: In 352, the 5 is in the "tens" position, so it shows a value of 50  
[www.mathsisfun.com/definitions/place-value.html](http://www.mathsisfun.com/definitions/place-value.html)



**Create New Resources**

*You may alternatively drag files into the space below to create several resources at once. The total file size limit is **5MB** per file upload.*

Drop Files Here

# Easy Sharing of Materials with All Stakeholders

- **Curriculum Viewer-** Disseminate curriculum units to teachers for review and use in building lesson plans
- **Class Calendar and Bulk Scheduler-** Rapidly schedule units, lesson plans, Dialogs, and assessments in real-time
- **K-12 Student-Parent Center-** Provide access for students and parents to lessons, assignments, assessments, and results for all courses over multiple school years
- **Student Files Feature-** In the Center, submit student work from Google Drive or student computer for teacher review (Dec 2016)

## K-12 Student-Parent Center

The screenshot displays the K-12 Student-Parent Center interface. At the top, there's a navigation bar with 'Dashboard', 'Calendar', and 'Files' tabs. Below this, the user's name 'Vanessa' is visible. The main content area is divided into several sections:

- Events:** A list of upcoming events, including 'ATI MATH 05 TE-NBT\_NF', 'Multiply and divide whole numbers by 10, 100, and 1000', 'Place Values', and 'Adams 14 Multi-Grade TE-Demo-Demo'.
- Calendar:** A monthly calendar view for November 2016, showing the dates of the events listed in the Events section.
- Performance Levels across Subjects:** A 3D bar chart comparing performance levels across different subjects.
- Performance Levels across Tests:** A 3D bar chart comparing performance levels across different tests.
- Test Scores:** A table showing test scores for various subjects and tests.

Type	Subject	Test Name	Date	Score	Percentage	St. Score	Percentile Rank
Benchmark	05-005-ELA-05-Gr.	2015-16 CMAS Readwss-ELA-05-Gr.-TE-001	11/02/2016	80.00	87%	1001 (0.4)	79
Benchmark	05-005-ELA-05-Gr.	2015-16 CMAS Readwss-ELA-05-Gr.-MATH-TE	2/18/2016	25.00	25%	867 (0.0)	43
Benchmark	05-005-ELA-05-Gr.	2015-16 CMAS Readwss-ELA-05-Gr.-TE_Present	5/8/2015	12.00	27%	867 (0.0)	9
Benchmark	05-003-Math-05-Gr.	2015-16 CMAS Readwss-Math-05-Gr.-TE-001	11/02/2016	88.00	92%	1001 (0.4)	74
Benchmark	05-003-Math-05-Gr.	2015-16 CMAS Readwss-Math-05-Gr.-MATH-TE	2/18/2016	25.00	25%	1001 (0.4)	79
Benchmark	05-003-Math-05-Gr.	2015-16 CMAS Readwss-Math-05-Gr.-TE_Present	6/10/2015	25.00	25%	1001 (0.4)	54
Benchmark	05-006-ELA-05-Gr.	2015-17 CMAS Readwss-ELA-05-Gr-TE-Present	6/10/2015	18.00	25%	No Measurement Yet	No Measurement Yet
Formative	Math-Test	Unit 2 Post_2016	10/14/2016	88.00	92%	N/A	N/A



# Benefits of the Galileo Digital Curriculum Platform

- **Integration of Instruction and Assessment**  
Align assessment to curriculum and instruction, then use results to guide next instructional steps
- **Measurement of Instructional Impact**  
Determine what works by measuring what has been taught as well as what has been learned
- **Flexibility and Sustainability**  
Update and enhance curriculums in real-time to accommodate changing needs
- **A Single Digital Hub**  
House all your curriculum, instruction, and assessment materials in one web-based system accessible anywhere anytime





# Upcoming Digital Curriculum Platform Projects

Project	Target Date
Lesson Plan Viewer and Print Capability	December 2016
Learnzillion Integration	December 2016
Student Center File Submission (Google Drive)	December 2016
Dialog Builder and Dialog Viewer Redesign	January 2017
Teacher-Student Communication (Message Board)	March 2017
Dialog Monitoring Update	March 2017
SAS Curriculum Pathways Integration	May 2017



# Galileo K-12 Online in CUSD

**Presented by Chandler Unified School District**

*Janice Bourbon, Academic Coach*

*Amber Childers, Assessment Specialist*

*Cristen Marceau, Educational Technology*

Co-Hosted by:





# Galileo K-12 Online in CUSD

## Introductions

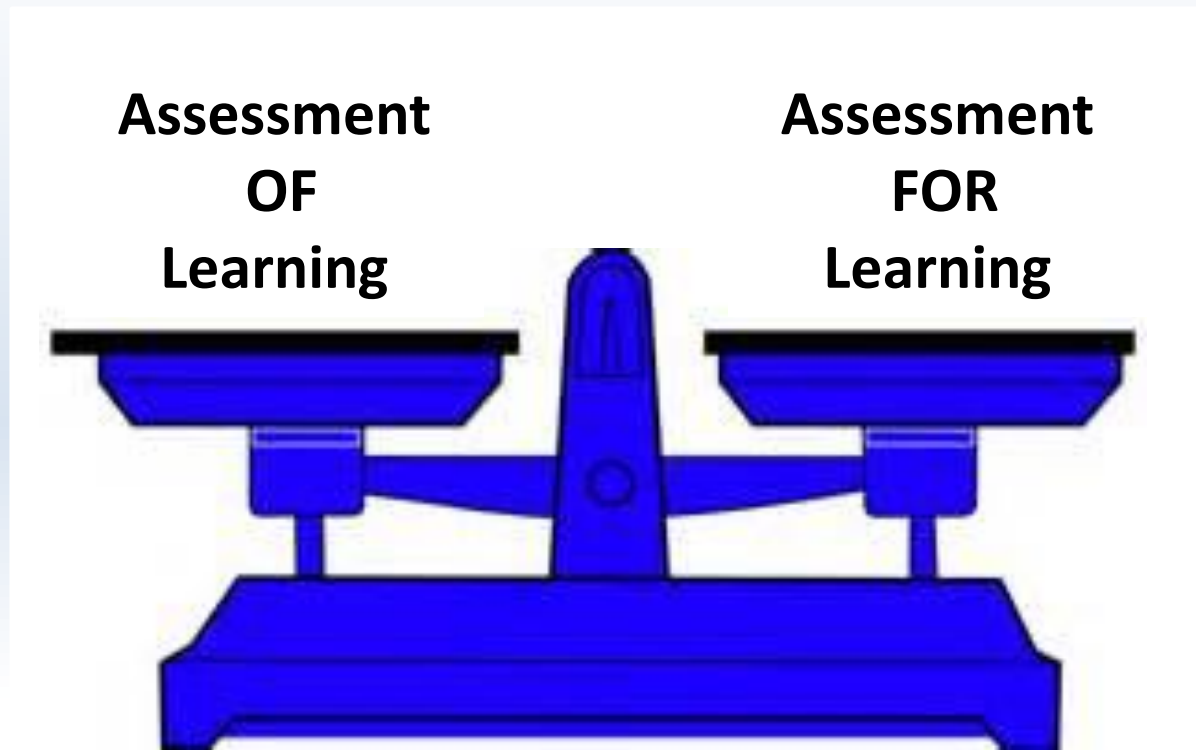
- **Cristen Marceau, Instructional Technology**
  - Elementary classroom teacher
  - Media specialist
  - Instructional technology for CUSD
  - Provided and uploaded templates for teachers during the digital curriculum process and scheduled implementation units
- **Janice Bourbon, Academic Coach**
  - Elementary classroom teacher
  - Worked in Title 1
  - Provides professional development to CUSD
  - Maintains the digital curriculum units and is currently working on phase 2
- **Amber Childers, Assessment Specialist**
  - Elementary classroom teacher
  - RTI Coordinator
  - Coordinates district and state testing windows
  - Implemented the ATI Galileo system in K-6 and currently leads the system for the district





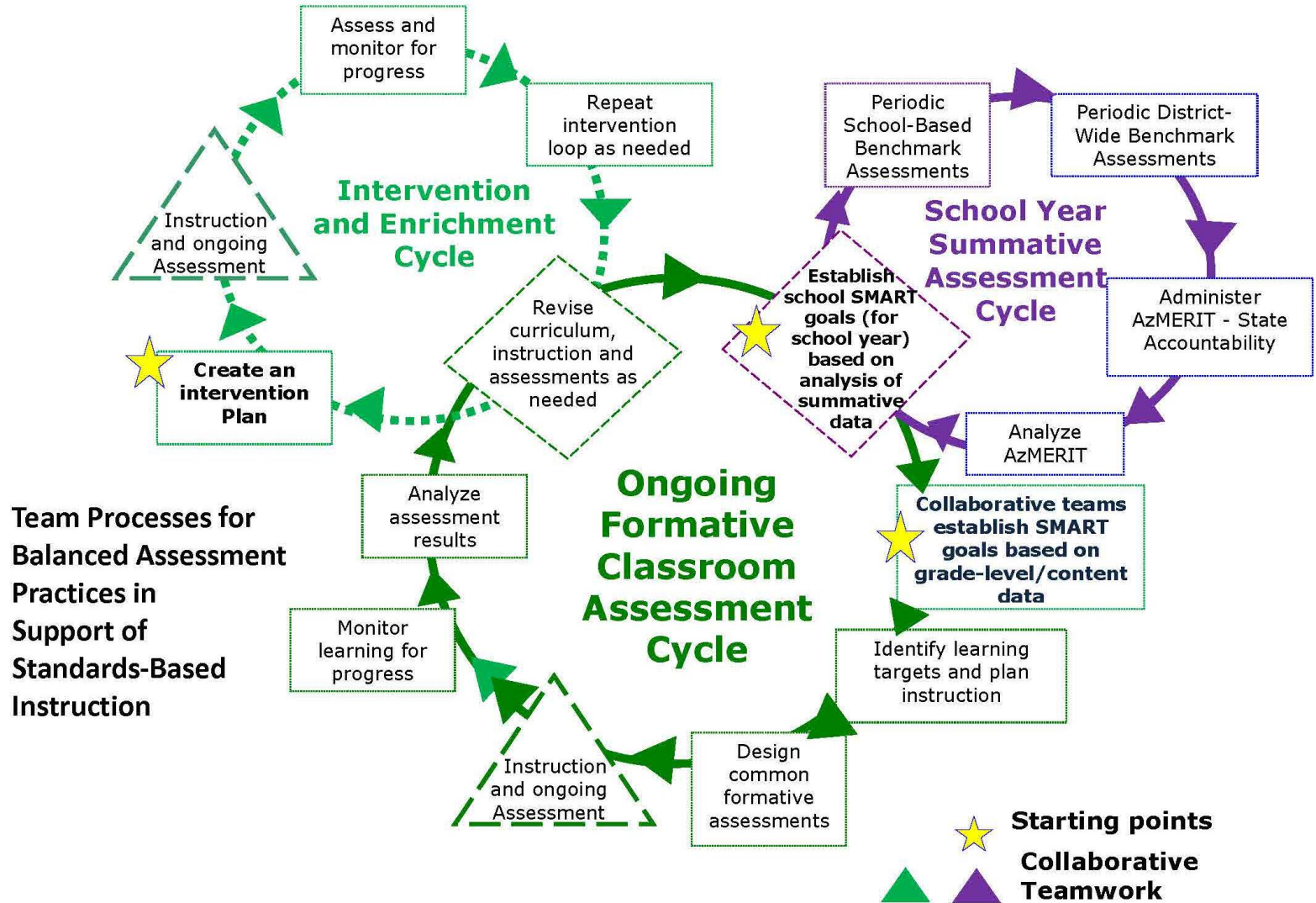
# Galileo K-12 Online in CUSD

## A Balanced Approach





# Galileo K-12 Online in CUSD





# Galileo K-12 Online in CUSD

## ATI Assessment System

The screenshot displays the ATI Galileo K-12 dashboard for a teacher. The top navigation bar includes 'Setup', 'Assessment', 'Curriculum', and 'Reports'. The dashboard is for 'Desert Dwellers District (2016-2017)', 'Desert Elementary School', and 'Mary's Class'.

**Settings Panel:** Shows the district name 'Desert Dwellers District', school 'Desert Elementary School', and class 'Mary's Class'. It has radio buttons for 'Class' (selected) and 'Intervention Group'.

**Roster (47):** A list of students with search and filter icons. The visible students are:

- Allen, Beth (BA)
- Cash, John (JC)
- Garcia, Frankie (FG)
- Garcia, Jorge (JG)
- Garcia, Leticia (LG)

**Risk Level Summary:** A 3D bar chart titled 'Risk Group Counts By Subject' for 'CC-R04: ELA 04 Gr.'. The chart shows the number of students in each risk category:

Risk Level	Number of Students
On Course	9
Low	4
Moderate	13
High	0

**Recent Events:** A table showing test results and analysis links.

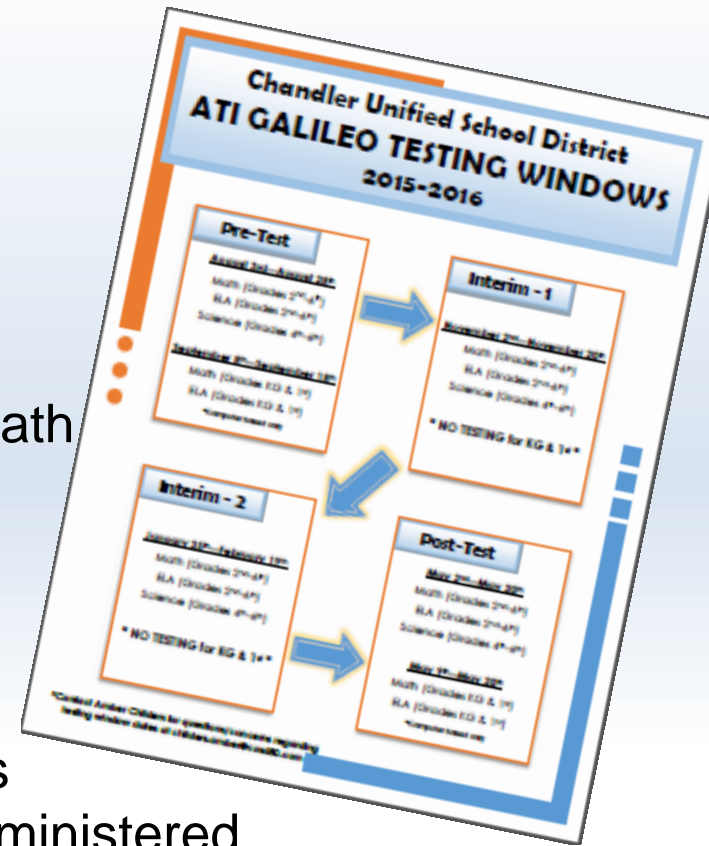
Date	Title	Tests Taken	Avg. Raw Score
9/20/2016 Tuesday 20 days ago	Multi-grade TE Items	22/47	13.41%
8/12/2016 Friday 2 months ago	*2016-17 ATI CCP ELA 04 Gr. CBAS #1	26/47	59.49%
8/4/2016 Thursday 2 months ago	2016-17 ATI CCP ELA 04 Gr. CBAS #1	43/47	23.36%
7/25/2016 Monday 2 months ago	2016-17 ATI A2 TE EM 00 Gr. #1	43/47	21.76%



# Galileo K-12 Online in CUSD

## First Year Implementation

- Train the Trainer Model
  - ATI lead for each campus
- Comprehensive assessments
  - Grades K-1 testing in August/May
  - Grades 2-6 testing quarterly in ELA and math
  - Grades 4-6 testing quarterly in science
- Personalized training on formative assessments
  - Quick assessments that align to standards
  - Resources to use after the formative is administered







# What Works Panel – Goals, Challenges, Solutions, and Next Steps

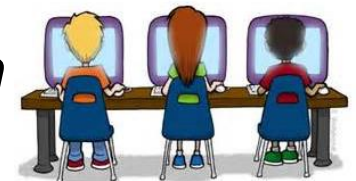
## Second Year

- Similar testing model
  - Moved K-1 testing to October
  - Scheduled tests at instructional level
- Data analysis for reliability
  - ATI correlations
  - MOWR student list
- Personalized training
  - Reports to guide instructional decisions
  - Building formatives
- Implementation of the *Digital Curriculum Platform*

**Forecast Report**  
 District: Chandler Unified School District  
 Title: 2016-18 Chandler 06 Math  
 Subtitle: Four 2016-2018 6th Grade Math Benchmark Assessments and 2016-2018 AzMERIT

Benchmark Performance				Risk Classification		AzMERIT Performance			Percent Accurately Forecast
Test 1	Test 2	Test 3	Test 4	Risk Group	Student Count	Met	Not Met	Percent Met	
Met	Met	Met	Met	On Course	1027	1001	26	97	97
Met	Met	Met	Not Met	Low Risk	39	31	8	84	84
Met	Met	Not Met	Met		337	283	54		
Met	Not Met	Met	Met		19	15	4		
Not Met	Met	Met	Met		90	78	12		
Met	Met	Not Met	Not Met	Moderate Risk	153	63	90	59	41
Met	Not Met	Met	Not Met		2	1	1		
Met	Not Met	Not Met	Met		56	37	19		
Not Met	Not Met	Met	Met		10	7	3		
Not Met	Met	Not Met	Met		158	117	41		
Not Met	Met	Met	Not Met		12	6	6		
Met	Not Met	Not Met	Not Met	High Risk	135	20	115	12	88
Not Met	Met	Not Met	Not Met		173	44	129		
Not Met	Not Met	Met	Not Met		8	2	6		
Not Met	Not Met	Not Met	Met		75	26	49		
Not Met	Not Met	Not Met	Not Met		605	30	575		
Correlation with AzMERIT				Total Student Count: 2898		Overall Percent Accuracy:			84
0.74	0.82	0.83	0.85						

Test 1 Title: 2016-16 Chandler Math 06 Gr. \_Pretest  
 Test 2 Title: 2016-16 Chandler Math 06 Gr. Interim #1  
 Test 3 Title: 2016-16 Chandler Math 06 Gr. Interim #2  
 Test 4 Title: 2016-16 Chandler Math 06 Gr. Posttest







# Galileo K-12 Online in CUSD

## ATI Digital Curriculum Platform

The screenshot displays the ATI Digital Curriculum Platform interface. At the top, there are tabs for 'Setup', 'Units', and 'Status'. Below these, a 'Units' section shows a list of units: 'Go Math 00 Chapter 01: Represent, Count, and Write Numbers 0 to 5', 'Go Math 00 Chapter 02: Compare Numbers to 5', and 'Go Math 00 Chapter 03: Represent, Count, and Write Numbers 6'. The first unit is selected. Below the units list, there are tabs for 'Unit Info', 'Standards', 'Materials', and 'Assessments'. The 'Unit Info' tab is active, showing the 'Unit Title' as 'Go Math 00 Chapter 01: Represent, Count, and Write Numbers 0 to 5' and the 'Unit Duration' as '15 Day(s)'. Below this, there is a 'Unit Slides' section with 'Add Slide' and 'Delete Slide' buttons. A list of slides is shown, with 'Essential Learning' selected. To the right of the slide list is a rich text editor for the 'Essential Learning' slide. The editor contains the following text: 'Essential Learning', 'How can you show, count, and write numbers 0 to 5?', 'Lesson 1.1: Model and count 1 and 2 with objects.', 'Lesson 1.2: Represent 1 and 2 objects with number names and written numerals.', 'Lesson 1.3: Model and count 3 and 4 with objects.', 'Lesson 1.4: Represent 3 and 4 objects with number names and written numerals.', 'Lesson 1.5: Model and count up to 5 with objects.', 'Lesson 1.6: Represent up to 5 objects with a number name and a written numeral.', 'Lesson 1.7: Use objects or drawings to decompose 5 into pairs in more than one way.', 'Lesson 1.8: Know that each successive number refers to a quantity that is one larger.', 'Lesson 1.9: Solve problems by using the strategy make a model.', and 'Lesson 1.10: Represent 0 objects with a number name and a written numeral.'





## Galileo K-12 Online in CUSD

### Reasons for Adopting Platform

- Support integration of instruction with assessment *for* learning
- Select and adapt materials and resources based on student needs
- Differentiated instruction aligned with standards

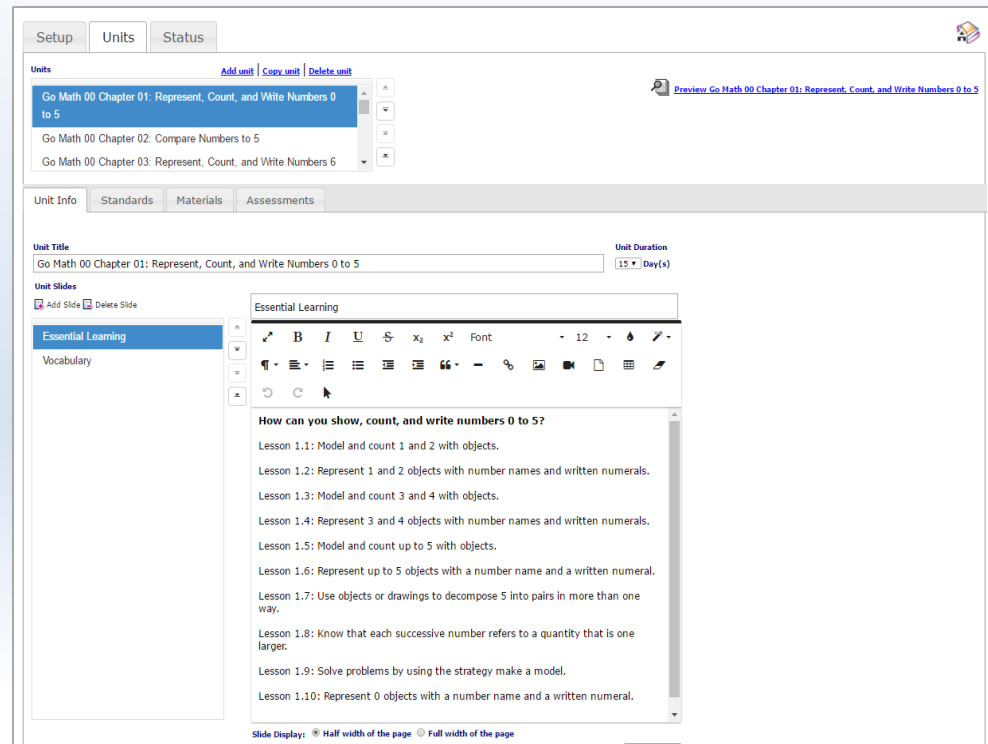




# Galileo K-12 Online in CUSD

## Beginning the Process...

- ATI presented product
- Developed unit structure and naming conventions
- Identified K-6 teachers for math project
  - 4 math programs
  - 4 grade bands
  - General education, self-contained gifted, traditional academies, and acceleration models





# Galileo K-12 Online in CUSD

## Building the Curriculum

- Developed unit templates for teachers
- Release days – 2 days per subgroup
  - Day 1 – working with templates, gathering feedback on unit structure
  - Day 2 – inputting curriculum into Galileo, reviewing and attaching resources
- Proofreading/publishing/scheduling units

### ATI Digital Curriculum – Unit Template

Digital Curriculum Title: Go Math 03

Please use the form below to share required unit information for the curriculum binder selected above. Use a separate form for each unit/chapter. Refer to Go Math online resources when necessary:  
URL <http://www-k6.thinkcentral.com/ePCEval/evallogin.do>

Click the **Register** button, then use the access word **gomath15k6** to register for your account.

Unit Title	Chapter 7: Division Facts And Strategies
Length	18 school days

#### Essential Learning

Copy essential learning goals and paste each entry on a separate line in the space below.

What strategies can you use to divide?

7.1-Use models to represent division by 2.

7.2-Use repeated subtraction, a number line, or a multiplication table to divide by 10.

7.3-Count up by 5s, count back on a number line, or use 10s facts and doubles to divide by 5.

7.4-Use equal groups, a number line, or a related multiplication fact to divide by 3.

7.5-Use an array, equal groups, factors, or a related multiplication fact to divide by 4.

7.6-Use equal groups, a related multiplication fact, or factors to divide by 6.

7.7-Use an array, a related multiplication fact, or equal groups to divide by 7.

7.8-Use repeated subtraction, a related multiplication fact, or a multiplication table to divide by 8.

7.9-Use equal groups, factors, or a related multiplication fact to divide by 9.

7.10-Solve two-step problems by using the strategy act it out.

7.11-Perform operations in order when there are no parentheses.



# Galileo K-12 Online in CUSD

ATI Galileo® K-12 Setup Assessment Curriculum Student Reports CM

Digital Curriculum Builder

Chandler Unified School District (2016-2017) Sanborn Elementary School [No Class Selected]

School Sanborn Elementary School  
Class [All Classes]  
Library [Select a library]

**Related Options**  
[Create Library](#)  
[Bulk Schedule Units](#)

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Protected by U.S. Patents 6,322,366; 6,468,085B1; 7,065,516 and others pending.



# Galileo K-12 Online in CUSD

## Implementation

- Release day for site  
ATI leads
- ATI trained teachers  
on new *Dashboard*  
and *Lesson Plan  
Builder* for math
- Site leads then  
trained teachers on  
site

The screenshot displays the Galileo K-12 online dashboard for a teacher. The interface is organized into several sections:

- Navigation Bar:** Includes 'Setup', 'Assessment', 'Curriculum', 'Student', and 'Reports' menus, along with a user profile icon (CM).
- Dashboard Header:** Shows 'Chandler Unified School District (2016-2017)', 'Sanborn Elementary School', and 'GRADE 05 COURSE'.
- Settings Panel (Left):** Features a 'TEACHER' dropdown, the school district logo, and selection options for 'Sanborn Elementary School' and a 'Class filter by teacher' field. It also includes radio buttons for 'Class' and 'Intervention Group'.
- Roster Section (Left):** Displays 'Roster (104)' with notification icons and a search bar for students.
- Views Panel (Right):** Contains a 'BUILD' dropdown, a 'SCHEDULE' dropdown, and a calendar view. The calendar shows a weekly layout with days from Tuesday to Saturday. A list of math chapters is visible, including 'My Math 05 Chapter 02: Multiple Whole Numbers' through 'My Math 05 Chapter 12: Geometry'. A detailed view of 'Chapter 5 Adding and Subtracting Decimals' is shown at the bottom, listing 'Adding Decimals Test', 'Adding Decimals', and 'Adding decimals: hundredths'.



# Galileo K-12 Online in CUSD

## What's Next for CUSD?

- Complete ELA curriculum by June 2017
- Reevaluate math digital curriculum platform
  - What's working?
  - What needs revision?
  - Review EngageNY lessons and determine alignment with digital curriculum
- Link assessments to units in math and ELA





# Galileo K-12 Online in CUSD

## What's Next for CUSD?

- Continue a balanced approach
- Increase the amount of formatives administered
- Encourage and support data analysis
- Continuously improve the instructional process
  - Determine student needs by standard
- Create a fluid cycle of instruction and formative assessments
- Decrease test creation time
- Maximize teacher/student interaction time





# Galileo K-12 Online in CUSD

## Questions

Amber Childers

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Janice Bourbon

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Cristen Marceau

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# An Arizona First: The New Galileo® Digital Curriculum Platform in Action

## What Works Panel



# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Chandler Unified School District

*Matt Strom, Ed.D., Assistant Superintendent*

*Renee Sweeden, Director of Curriculum*





# What Works Panel –

*Matt Strom, Ed.D., Assistant Superintendent*

## **What were your goals and what challenges did you face in implementing technology in support of curriculum development, instruction, and assessment?**

From the perspective of the district office, the biggest challenge of implementing any digital curriculum, instruction and assessment is finding a renewable funding resource. We feel as if computer-based standardized testing was yet another unfunded mandate. Consequently, figuring out how to fund the initial device purchase accompanied with a plan for the device life cycle are probably the most difficult aspect.



# What Works Panel –

*Matt Strom, Ed.D., Assistant Superintendent*

## **In what ways did you address these goals and challenges using Galileo and other resources?**

A difficulty outside of funding that existed was linking data from disparate sources. Education systems often have a plethora of data that exists in a variety of different sources with poor linking mechanisms. Whether this is SIS to LMS to Assessment or business systems to SIS we often find our system in a position where relationships between data are difficult. Galileo is our first attempt at ensuring the most critical links are strengthened and that is the link between curriculum, instruction, and assessment.



# What Works Panel –

*Matt Strom, Ed.D., Assistant Superintendent*

## **What are the next steps you will be taking to incorporate technology in support of curriculum development, instruction, and assessment?**

We just started linking these items through our new mathematics adoption. We are currently expanding into English language arts and are looking forward to the opportunity to expand into science, history, and the arts.





## What Works Panel –

*Renee Sweeden, Director of Curriculum*

### **What were your goals and what challenges did you face in implementing technology in support of curriculum development, instruction, and assessment?**

Ideally we wanted one house for assessment, curriculum, and instruction in the form of remediation or enrichment. We did not want for teachers to have to flip back-and-forth between programs. One goal we had was to link assessment with curriculum. Rather than have teachers refer to big white binders that sat on the shelf for their curriculum, we wanted to house it digitally.





# What Works Panel –

*Renee Sweeden, Director of Curriculum*

## What were your goals and what challenges continued...

This was not only for ease of use but also so that we could update curriculum and get that out to teachers immediately. We also wanted a place for teachers to have assessment at their fingertips that would accurately assess the standards that they were teaching.

In addition, we wanted to make sure that we utilized our teacher expertise when doing this.







# What Works Panel –

*Renee Sweeden, Director of Curriculum*

## **In what ways did you address these goals and challenges using Galileo and other resources?**

Galileo gave us a platform -a house, if you will- for curriculum that was linked to assessments and also remedial and enrichment instruction. Because of the meta-tagging that already exists in Galileo for assessments and some resources, we were able to link curriculum to those. Galileo also allowed us to tap into our teacher capacity and leadership by having a house accessible to many.





## What Works Panel –

*Renee Sweeden, Director of Curriculum*

# What are the next steps you will be taking to incorporate technology in support of curriculum development, instruction, and assessment?

We are looking at housing more subject areas in Galileo-- curriculum that is linked to assessments that is linked to remediation and enrichment. We started with math and are moving onto English language arts. We anticipate science and social studies being next, while making refinements in the math curriculum that we are already housing there. Curriculum is a living thing ...





# What Works Panel –

*Renee Sweeden, Director of Curriculum*

## What are the next steps continued...

For example, when assessments show gaps in our curriculum we need a way to fill those quickly. That leads to changes in instruction which we hope will happen more quickly by using a digital house. Finally this allows us to use assessment for learning so that we can later use assessment of learning.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Crane Elementary School District

*Tara Guerrero, District Math Coordinator*

*Mike Hoffman, Ed.D., Director of Curriculum and Instruction*



# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Overview

Goals

Challenges

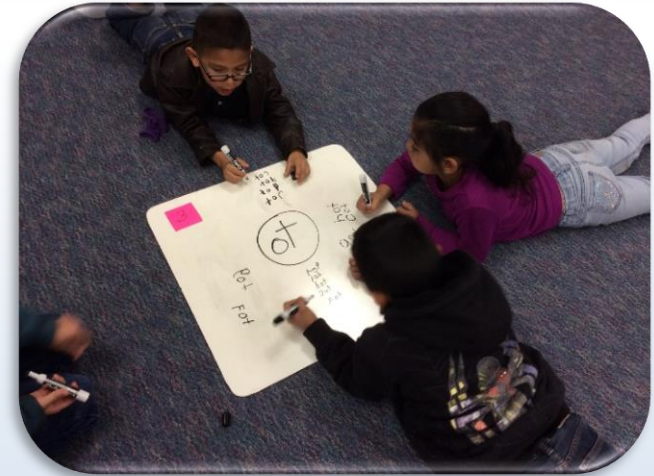
Resources

Future

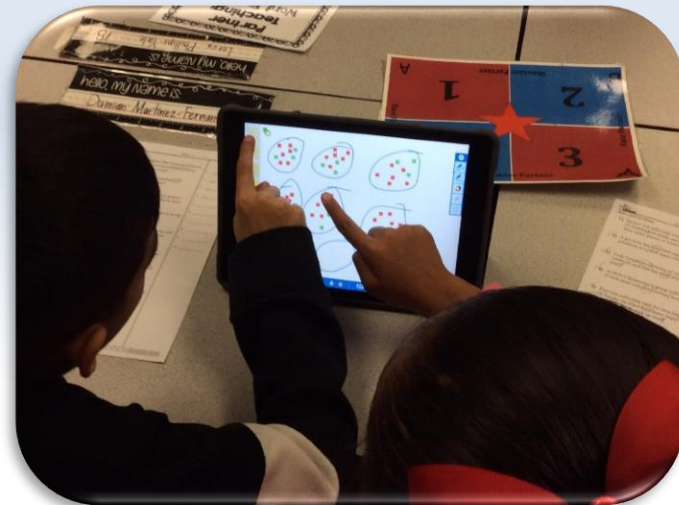


# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Goals



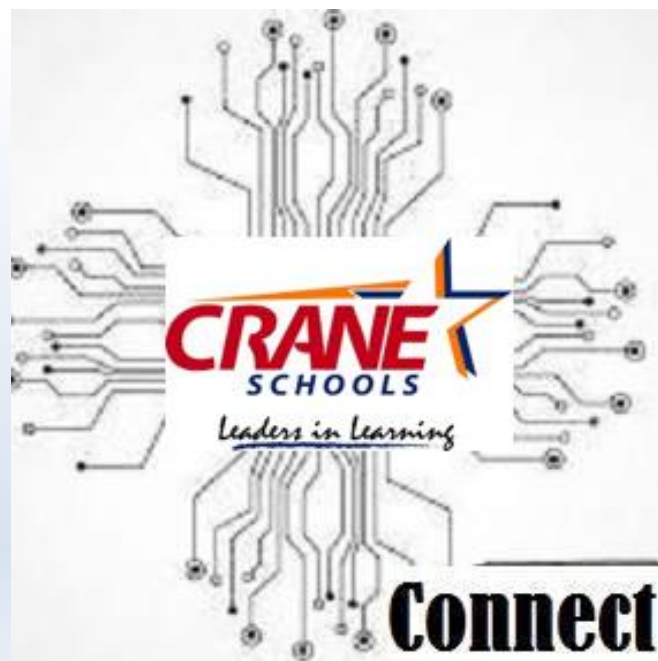
- Maintain natural joy of learning
- Foster creativity
- Improve literacy and numeracy
- Personalize learning
- Support teachers professionally



# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Supporting Strategies

- Seamless connectivity in all schools
- Ample number of student devices
- Collaborate across schools to unify and align
  - Curriculum
  - Instruction
  - Assessment
  - Data Analysis
  - Professional Learning
- Employ a learning management system (LMS)
  - Immediate, actionable student data





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Challenges

- Merging  $IT_{\text{service}}$  with  $IT_{\text{curriculum}} = IT^2$ 
  - Digital Transformation
- Moving from BT to Galileo DCP
  - Populating new platform
  - Nine grade levels simultaneously
  - Vetting resources for quality & alignment
  - Recruitment: Expanding curricular teams





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Challenges

- Immediate, actionable data from formative assessment at student level
- Creating Libraries
  - Curriculum
  - Common Assessment Construction
- User Access
  - Navigation and usage



# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Challenge Met

**Crane Exceeded Average Observed Growth:  
Pre-to-Post Test 2015-2016**

CONTENT AREA	PERCENT ABOVE AVERAGE
ELA	31%
Math	40%
Science	36%

Based on data from population of classrooms administering the Galileo Pre/Post Tests

# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Resources

- Digital Curriculum Platform
  - ATI Tech Support on “speed dial”
  - Created anchor charts for teams using DCP tools and features
    - copy unit, insert pictures, embedding links, ...etc.
  - Training of trainers
    - Curriculum team leads and PD coaches mentored school staff
- Apple Professional Development
  - Helped staff learn devices
  - Apple retail sessions for new tech learners
  - PD coaches and GenYES teams assist with follow up



# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Practical Lessons Learned

- Initially, for smaller teams, phase-in bands of grade levels
- Create a Curriculum School
  - Management of editing rights
  - Protected established schools
- Created a master template after unit structure was agreed upon
- “Bugs” or discovered issues
  - Two people working on same unit simultaneously caused deletion of work
  - Need to save work before navigating to new slide

# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Practical Lessons Learned

- Starting School Year
  - Focused on first two quarters to be ready for school start
  - Need classes created first before new curriculum can be distributed to teachers.



# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Now

Current next steps:

- Continue to populate and vet resources (KINDER!)
- Common Crane Assessment creation
- Increase user...
  - knowledge
  - skill base
  - activity



# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Future

Future next steps:

- Train staff on use of lesson plan builder
- Inclusion of high-quality instructional videos on DCP
  - w/teacher reflection functionality
- Explore & roll-out *K-12 Student-Parent Center* to families
  - Student iPads going home soon





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Maricopa Unified School District

*Dennis Koch, Director of Assessment and Data*

*Wade Watson, Director of Curriculum and Instruction*

Co-Hosted by:







# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Goals - implementing technology in support of curriculum development, instruction, and assessment

Our goals were to combine what most teachers saw as simply an assessment system, with an online platform that would house our curriculum map and resources. In doing so, the hope is that not only will teachers have access to the maps and resources from home, they will also utilize ATI Galileo as an instructional tool and resource. By embedding our curriculum within Galileo our goal was to then have teachers create assignments, quizzes, and tests within Galileo more frequently than they were before.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Goals Continued...

Another goal is to have enough technology so that we are a one to one district. This would allow teachers to be in Galileo daily with their students. They could then schedule assignments and quizzes daily.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Challenges - implementing technology in support of curriculum development, instruction, and assessment

The challenge in this is getting teachers used to and familiar with the platform and all of its functions. It is also a challenge to get them into Galileo on a daily basis looking at their curriculum maps and seeing what resources are available to them. Furthermore, there is still resistance in using/viewing ATI Galileo as anything other than an assessment platform.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Challenges Continued...

Another challenge that we faced was having available technology for each classroom. We have computer labs at each school but this is a limited amount of time for each class. We have purchased computer carts for each school but still we do not have enough for every grade level.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Challenges Continued...

Another challenge was that with these features being newly developed by Galileo, we had pieces of the platform not ready for use yet and teachers wanting to see “the whole package”. Features like printing curriculum maps and calendars and being able to copy lesson plan templates came after the school year had started.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Challenges Continued...

A challenge we still face is having teachers use the reports within Galileo after testing to help guide their instruction. We have done many professional developments, but still we have a percentage of teachers who still do not pull reports.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Challenges Continued...

We have tight windows to get all of our classrooms to test. We help create testing schedules and move technology around to help make sure we have enough technology to support our teachers, but due to a limited amount of technology resources, testing as a whole district is challenging.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Addressing Goals and Challenges

Over the summer we brought in teams of teachers to put our curriculum maps for math and ELA and many of their teacher resources into the Galileo curriculum platform. At the start of the school year we held trainings for all k-12 math and ELA teachers to help them learn how to access the curriculum in Galileo. Throughout this year we will continue trainings on how to utilize the system. We have given many new professional developments this year for both evaluation and how to create quizzes within Galileo. We are starting to see an increase in the usage of Galileo this year.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Addressing Goals and Challenges Continued...

We have been able to now print our curriculum maps to make them available as a hard copy as well as electronically. This along with the capability to copy a lesson plan template for multiple uses came after the start of the school year and after our initial training.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Addressing Goals and Challenges Continued...

We have been monitoring usage reports to see if teachers are actively in Galileo or not. We are asking a lot of questions to see what they like and how we can help support them. We are also sending their thoughts to ATI as we get them to see if they can add any features teachers would like to have.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Steps to incorporating technology in support of curriculum development, instruction, and assessment

We are continuing to teach our academic coaches and mentors new ways to use Galileo. Our goal is to have them go back and teach this to their staffs or teachers they are mentoring.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Steps Continued...

Our next training will be on how to use the *Lesson Plan Builder* feature. We are also working on building and housing grade level formative assessments in the curriculum units. Some grade levels are further along than others.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Steps Continued...

When it comes to technology for assessment we are continually trying to add new laptops and carts as budget will allow from year to year.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Steps Continued...

We are training our teachers to find and use resources that Galileo has made available for us through the *Digital Curriculum Platform*.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Steps Continued...

We are trying to become more paperless. Our next step would be to show staff how to use Galileo and other available technology resources to guide and enhance their instruction.





# What Works Panel – Goals, Challenges, Solutions, and Next Steps

## Steps Continued...

Students seem to respond and engage in the use of technology so we are moving our district in this direction.





# An Arizona First: The New Galileo® Digital Curriculum Platform in Action

## Question and Answer

# An Arizona First: The New Galileo® Digital Curriculum Platform in Action

## Closing Remarks

# An Arizona First: The New Galileo® Digital Curriculum Platform in Action

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*Thank you for your participation.*