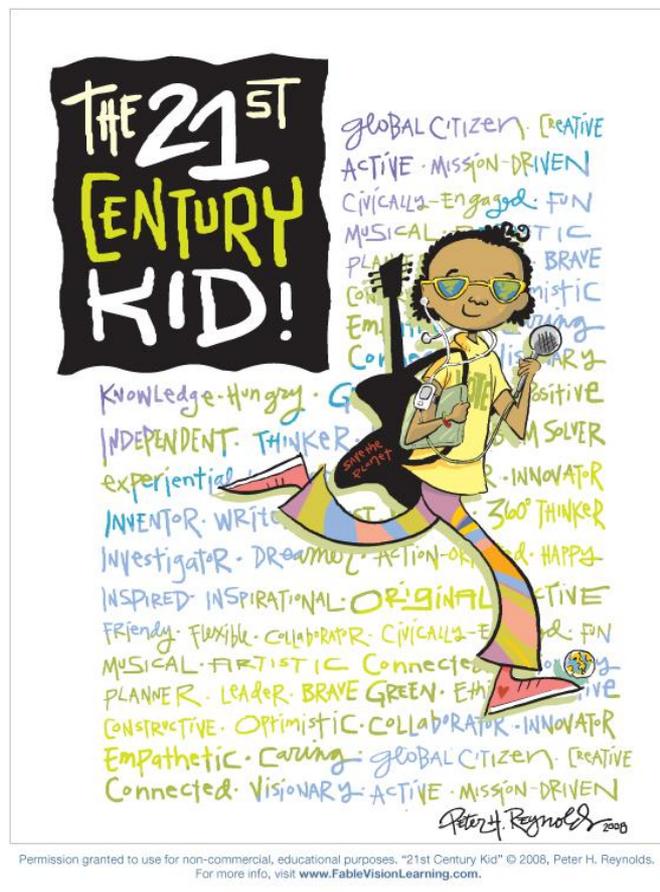


Planting Seeds: Twelve 21st Century Classroom Grants



Presenters

- **Cathy Poplin**, Deputy Assoc. Supt for Ed Tech, Arizona Department of Education
- **Robyn Griffith**, Information Systems and Technology. Creighton School District
- **Suzanne Sallee**, Education Technology Coach, Creighton School District

Goals of Project

Primary

- Close the Student Achievement Gap
- Provide High Quality Professional Development and Instructional Support

Secondary

- Increase student and teacher technology literacy skills

\$6 Million Investment - 18 months

Districts Involved

- **Alhambra Elementary District**
- **Balsz Elementary District**
- **Cottonwood-Oak Creek Elementary District**
- ***Creighton Elementary District***
- **Douglas Unified District**
- **Roosevelt Elementary District**

Districts Involved

- **Safford Unified District**
- **San Carlos Unified District**
- **Tempe School District**
- **Tolleson Elementary District**
- **Tolleson Union High School District**
- **Tombstone Unified District**
- **Tucson Unified District**

Amounts from \$380,000 to \$500,000

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Length of Project: 18 months

Districts and Target Subjects

District	Schools	Grades	Target Subjects	1:1 Devices	Grant Amount
Alhambra School District	Granada East Montebello	7, 8	Math, Language Arts Science Social Studies	Laptop	\$500,000
Balsz School District	Orangedale Junior High Prep Academy	7, 8	All content areas	Netbook	\$437,640
Creighton School District	Creighton Elementary Excelencia , Gateway LC. Kennedy, Machan Elem Papago, Squaw Peak Elem	K, 3	Language Arts	iPod Touch	\$400,000
Cottonwood-Oak Creek Unified District	Cottonwood Middle Tavasci Elementary Cottonwood Elementary	2, 4, 7, 8	Math Language Arts Science Social Studies	iPad	\$480,000

Districts and Target Subjects

District	Schools	Grades	Target Subjects	1:1 Devices	Grant Amount
Roosevelt School District	Cesar E. Chavez Community John R. Davis, V.H. Lassen Elem, Valley View	7, 8	Math Language Arts	Netbook	\$365,779.00
Safford Unified District	Safford Middle	7, 8	All core content areas	Netbook	\$450,000.00
San Carlos Unified District	Rice Elementary San Carlos Junior High School	4, 5, 6, 7, 8	Math Language Arts Science Social Studies	Netbook	\$490,000.00

Districts and Target Subjects

District	Participating Schools	Grades	Target Subjects	1:1 Devices	Grant Amount
Tempe School District	Gililand Middle School	6, 7, 8	Language Arts	Macbook	\$500,000
Tolleson Elementary & High School Districts	Porfirio H. Gonzales Elementary School	8	Language Arts	iPod Touch	\$338,000
	Tolleson Union HS	9			
Tombstone Unified District	Huachuca City School Walter J. Meyer Elem . Tombstone High School	K-10	Math, Language Arts, Science Social Studies	Netbook & iPod	\$430,000.
Tucson Unified District	Maxwell Middle School	6, 7, 8	Math, Language Arts, Science Social Studies	Netbook	\$422,999

Variety of 1:1 Approach



21st Century Classrooms – Technology Core

- ▶ Teacher Laptop & Productivity Tools
- ▶ 1:1 student access - Digital Devices/ Netbooks/ Handhelds/
- ▶ Presentation Device:/ Interactive White Board/ LCD Screen
- ▶ Projector & Doc Camera
- ▶ Learner Response Devices for formative assessment
- ▶ Digital & Video Cameras
- ▶ Robust Software & Digital Content (IDEAL)
- ▶ Printer

Additional Elements for 21st Century Classroom

- Wireless access in classrooms
- Webcam for classroom use
- Audio system
- Flash drives for each student



Strong Professional Development

- Tech Integration Support at the building level
- Peer Coaching Program to build capacity



Peer-Ed

<http://peer-ed.com>

- Intel Teach Essentials and Elements courses **REQUIRED**
- PD based on achievement data and teacher content knowledge & pedagogy
- Use of Web 2.0 tools and project based learning

Conclusions from Evaluation- Teachers

- Progress towards their own technology proficiency
- Classroom instruction more **efficient, creative, and student-centered**
- Need more time to digest PD and to become comfortable with technology

*I've been in the district for 24 years, so for me having everything go on line, it **changed everything** – like being **a first year teacher** all over again. So I had to think differently, . . . as a teacher I have to allow my students to express themselves in different manners and creativity and sometimes you don't get the work on time, but when you do get it, **it's so superior and it reaches heights** that you never would have thought. . . .*

Conclusions from Evaluation - Students

- Increased technology literacy skills
- Acquired more content knowledge and changed learning behavior
 - Communications & collaboration
 - Research & information fluency,
 - Self-confidence
 - High Engagement & concentration
 - Creativity and Innovation
- Engaged in class projects
- Inspired by tech-integrated activities

Conclusions from Evaluation Students

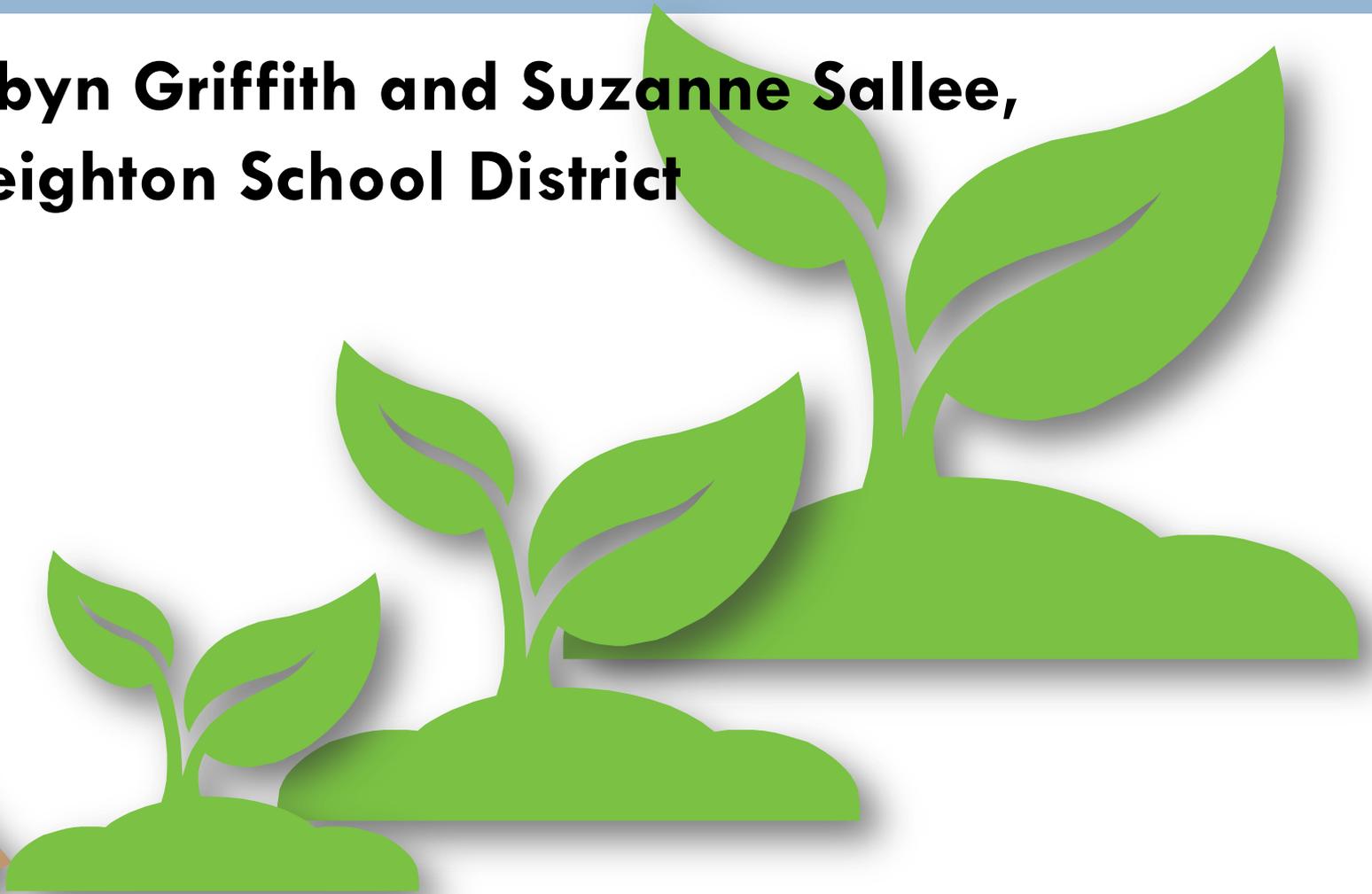
Student: Because when . . . you write, your hand starts hurting and you don't want to write all your thoughts. When you type, you can write all your thoughts on it and be creative. I think everyone's more creative on the computer than writing with pen and paper.

Complete Evaluation can be found:

http://www.azed.gov/educational-technology/files/2011/06/21st_cent_class_eval-final-10-24.docx

Voices from the Field

- **Robyn Griffith and Suzanne Sallee,
Creighton School District**



Lessons Learned

- It takes **longer than 18 months** to see an increase in student achieve and technology literacy.
- Invest **more time in training** the technology side at the beginning of the implementation.
- Allow teachers to **determine their own professional development** for instructional purposes.

Question & Answer

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