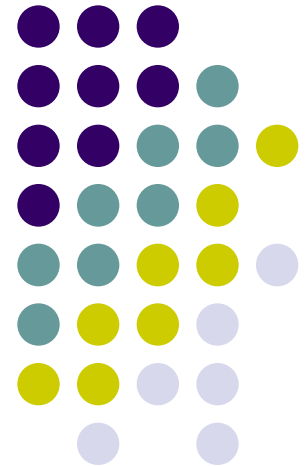
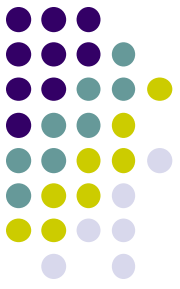


The Brush District Tech Journey

Board Presentation

November 2011
Randy Dalton

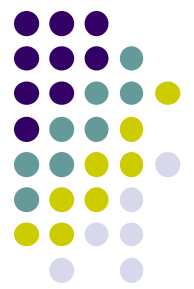




Main Statement of Need

- Technology in schools and in the workforce (and even in our homes) has affected the way we do business.
- The world has been connected through unseen wireless systems that surround our world, and our District is faced with a tremendous challenge-how do we prepare our students for their future and success in this "connected society."
- We know that technology is not a cure-all for success, but a necessary tool of our world.

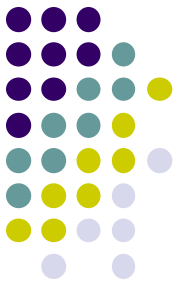
TIME



How To Build a Student For the 21st Century

BY CLAUDIA WALLIS
& SONJA STEPTOE

19 Months of Rapid Upgrades



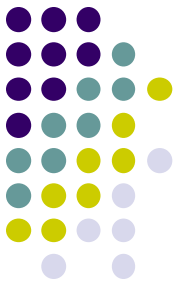
- After initial assessment of the status of the District Infrastructure many decisions were made to counteract a pending “Perfect Storm” of potential near term failures and deficiencies:
 - Initial I.T. audit and staff polling pointed to some immediate issues that needed to be addressed.
 - But --- there were additional issues lurking
 - A rapid plan was placed in action and presented to the then superintendent.

Defining Scope of the I.T. Infrastructure



- **The Information Technology Department Handles all Infrastructure, which:**
- **Includes hardware, software, and services**
- **A set of physical devices and software applications that are required to operate the entire District**
- **District is largely dependent on its infrastructure for delivering services to teachers, staff, and most importantly, students**
- **You can think of infrastructure as digital plumbing, but its much more than that!**

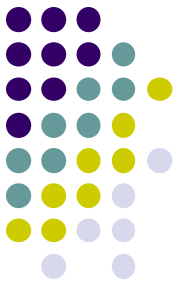
Pent up Demand



- Items of initial concern included but were not limited to:

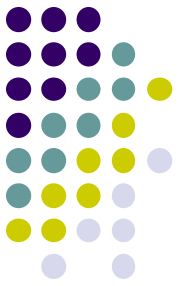
1. Malfunctioning Email
2. Outdated Website
3. Variety of over 12 disparate operating systems
4. Aged and limited server processing power and function
5. Mix of multiple versions of Microsoft Office
6. Some teacher and student computers approaching 15 years of use and past end-of-life.
7. Network capacity and configuration
8. Multiple outside administrators performing isolated and non-uniform configurations
9. Insufficient bandwidth (carrying capacity) of the Wide Area and Local Area networks

What has Transpired – Building the Spring Board

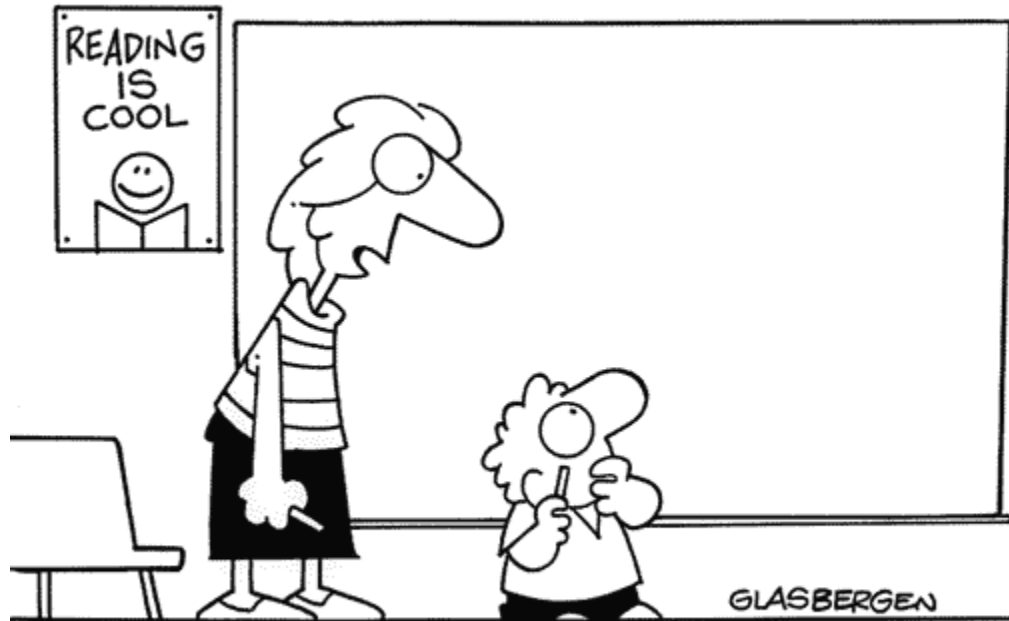


- Uniformity and standardization
- Upgraded blade servers
- New teacher PCs throughout district.
- Thin-Client lab Implementation
- Net + 3 labs
 - BV, BMS, Thomson
- Dramatic leap forward on WAN bandwidth
- Internal LAN reworking
- Active Directory
- DHCP
- Wireless
- Print Servers
- Cost savings using copiers as printers

What Yet Needs to Transpire to Reach the End Game

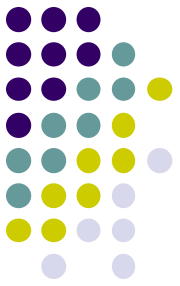


Copyright 1996 Randy Glasbergen. www.glasbergen.com



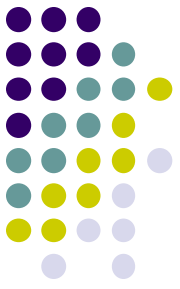
“There aren’t any icons to click. It’s a chalk board.”

What is the End Game - Transform, Incorporate, Engage Teachers



- Integrate **appropriate technologies** to maximize learning and teaching.
- Ensure the **integration of technology** leaders use technology
- Learning and **Creativity**
- **Critical Thinking, Problem Solving, and Decision Making**
- Model Digital-Age Work and Learning
- Digital Citizenship and Responsibility
- **Communication and Collaboration**
- Research and **Information Fluency**
- Professional Growth and Leadership

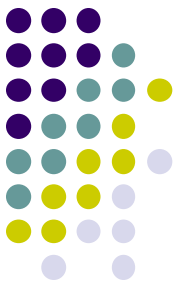
Making the Next Workforce Ready Student – One by One



- So what **CORE SKILLS**
do **employers** seek.

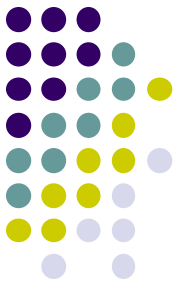
- http://www.graduateopportunities.com/career_advice/graduate_skills

Skills for success



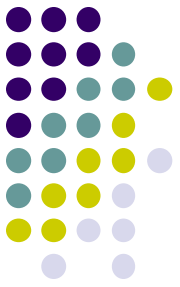
- **Communication**-(Oral and Written)
- Creative **problem-solving**
- Critical and analytical **thinking**
- **Collaboration & Teamwork**
- **Information** gathering, evaluation & synthesis
- **Literacy**
- Know more about the world-(**Global citizens**)
- Think outside the box- (**Creativity and innovation**)
- **Community** involvement
- Ambition, self-awareness & an **inquiring mind**

What Does Our Tech Plan Need to Consider???



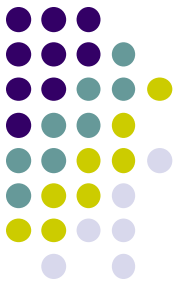
- Continued shoring up of the foundational tech abilities
- Flexibility to move with the rapid changes of fluid worldwide workforce requirements
 - Some of each year's plan needs to be able to rapidly shift
- Education Opportunities for Certified Staff to see clever and effective ways to build a 21st Century Learning Environment.
 - Assist in overcoming resistance to change and building competence.

5 Year Planning Assumptions



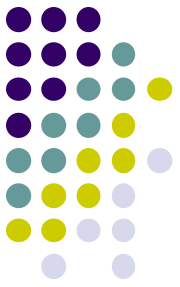
- Review student learning standards, benchmarks and assessment strategies at all grade levels for educational technology.
- Develop curriculum maps expressly linking course content to state and national learning standards.
- Increase the use of instructional technology to enhance teacher effectiveness.

5 Year Plan – Continued



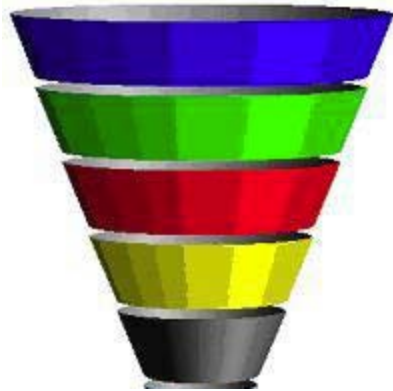
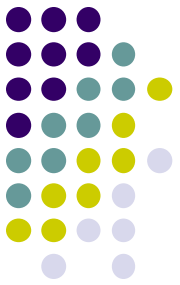
- Explore various software programs, which will aid teachers to integrate technology skills into the curriculum for Grades K-12.
- Establish the appropriate guidelines for special needs students in the use of technology.
 - Making sure that the district has the appropriate hardware and software for students with special needs

Consider Non-Brick and Mortar Education Delivery Systems

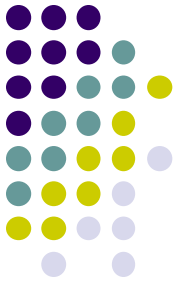


- This concept makes it possible for instructors in one location to teach classes in another or several other locations.
- Many people think of instructional television as the only delivery system for distance learning but, with Internet access, computers can also be used.
 - Polycom
- We need to research new methods to provide education and generate revenues.

Reducing the next funnel



Streaming Board Meetings



A screenshot of a Ustream live streaming page. The browser window shows the URL 'www.ustream.tv/channel/brush-school-district-re2j-board-meeting'. The Ustream interface includes a search bar, navigation menu (On Air, News, Campaign 2012, etc.), and a video player for the 'Brush School District RE2J Board Meeting'. The video player shows a progress bar at 00:06. Below the video are social media sharing options (Tweet, Like) and a channel info section. The channel info section shows 'Brush School District RE2J Board Meeting' with 1 Live View and 0 In Crowd. There are also advertisements for TRIBECA FLASHPOINT and HTC Radar 4G. The Windows taskbar at the bottom shows the time as 7:01 AM on 11/14/2011.