SV99 1:1 101

What are the actual of goals of implementing the 1:1 Initiative in Spring Valley?

- Instruct students in the way that they learn.
- Laptops and iPads are not the focus of this goal, but a tool that is used in changing the way we teach. Technology does not replace teaching. It enhances it.
- Further level the playing field by creating equal opportunities for all learners. Students will have access to the technology needed to interact and learn in a media and technology saturated world.
- Engage students and keep them engaged
- Align lessons with the Common Core
- Prepare students for HS and life beyond HS
- Teach an evolving Curriculum
- Increase communication and collaboration between students, faculty, and parents

How will the iPad change learning? How will the 1:1 initiative and technology change learning?

- Students will become creators instead of consumers of knowledge. Apple describes it in this way, "Students become pilots of their learning not just passengers along for the ride."
- Research shows that the 1:1 initiative "levels the playing field" for all students, regardless of any families' economic situation.
- Creates 21st Century Learners that discover the content rather than being told.
- Demands 21st –century collaboration and communication skills promoting interaction between students & students and students & teachers
- Reaches learning styles of today's students which are radically different in this digital world
- Promotes student engagement and differentiation
- Reduces textbooks and worksheets
- Reaches the Digital Generation with more than 60% of students being visual kinesthetic learners.
- Connects relevance which research has proven the importance of relevance in the learning process.
- Guides students in the production of knowledge
- Opens opportunities for education at all levels
- Allows access to current information and ability to manipulate information to connect it in meaningful ways
- Increases enthusiasm due to the ability to use the cutting edge web and other technological sites
- Promotes student pride through creative opportunities as opposed to textbook and worksheet assignments
- Improves students' ability to self-assess and set learning goals
- Increases interactive possibilities with teachers and other students
- Lessons will be a balance of simulation and practical situations.
- Traditional foundational skills will continue to be taught. In many cases these skills will be used in virtual simulations on the computer.
- Neuroplasticity is the ongoing reorganization and restructuring of the brain in response to intensive inputs, constant stimulation. Digital bombardment is having a dramatic effect on how a student processes information.
- Access to a digital resource at any time 24/7.

How will the iPad change teaching? How will the 1:1 initiative and technology change teaching?

- 21st Century education/teaching involves active learning, learning communities, and technology converging to create new school environments for students and teachers.
- Teachers will no longer be the central resource for knowledge, standing in front of the classroom. Teachers need to take on the role of facilitator of learning.
- Help students learn to manage their time and projects
- Teach laptop/computer ethical and responsible usage of technology
- Assign tasks of inquiry, collaboration, research, and polished/published writing
- Provide student opportunities including independent learning and practice
- Collaborate through interdisciplinary teaching and online professional development
- Provide practice, review sessions, additional readings and differentiated learning for all students
- Include the instructional component of the Common Core, which addresses the principles of "Challenge-Based Learning." Challenge-Based Learning is differentiated, project-based learning during which students collaborate on problem-based, real world situations and solutions.
- Digital learners prefer:
  - Receiving information quickly from multiple sources.
  - Processing pictures, sounds, color and video before text.
  - Random access to hyperlinked multimedia.
  - Network simultaneously with many others.
  - To learn just in time.
  - Instant gratification and immediate rewards.
  - Learning that is relevant, active, instantly useful, and fun.

Will the school district be able to sustain the 1:1 initiative?
- There currently is a $37,000.00 dollar budget for technology within the technology lease levy.
- It is important to note that not everything will be adapted to the computer. However, the expectation is everyone will do the best he or she can do to use technology in the classroom, to grow and learn.
- There will be savings in current printing costs --not all documents will have to be printed. Teachers will be copying fewer documents as education moves away from paper and pencil tasks. Many projects and activities can be prepared and presented online through the school's network.
- Money can be saved on textbooks and be used for sustaining the 1:1 initiative. Textbook information is available online and often can be accessed free of charge. A classroom set of some textbooks may be purchased for use, but the use of textbooks will evolve into digital media as teachers become more comfortable and aware of instructional materials available through laptops. Projects and activities can be done in an online, virtual arena.

How will social responsibility be taught to students? How will online social etiquette be taught to students?
- The district believes the school setting is one of the best places to teach responsibility to students.
- Proactive education combined with the technical security specifications of the system will minimize the risks to individual students and school equipment.
- Examples of online social etiquette, which will be addressed, include but are not limited to: cyber bullying, inappropriate web sites, online safety, plagiarism, and misuse of the equipment.

Why the Apple Computer in a PC world?
- Computer software is almost universally available across the available platforms. Microsoft Word programs are used on Mac machines and iPods and graphic programs for Mac are now compatible for PC. Many of our students can easily interchange between Mac and PC machines.
- When researching the successful 1:1 initiative schools, it became clear that the best option was the Mac machine. PC vendors are not willing to match the programs offered by Apple, and most schools attempting to develop the 1:1 initiative with PC-based machines have failed for a number of reasons. Every school successfully implementing the 1:1 initiative is using Mac computers. These schools are in Iowa, Illinois, Nebraska, Oklahoma, and the entire state of Maine. Apple is really the only company willing to work with schools on "turnkey" packages. The 1:1 package includes: blanket wireless for the entire campus, fully serviced and completely compatible servers, security system, anti-virus solution, Internet/web filtering programs, five full days of quality (on-going, research-based) professional development, training for all personnel, implementation of initial rollout of Mac machines to students, 24/7 customer service for students/staff, and repair/maintenance solutions backed by warranty.
- In addition, the nature of the Mac machine makes the need for anti-virus software unnecessary. Mac machines seldom get viruses, nor do they require much need for maintenance or repair. Other areas that make the Mac attractive for schools include the ease of automatic switching wireless networks, elimination of the need to load software on computers for peripheral devices such as video cameras, digital cameras, and projectors. Mac also offers ease of educating the user on doing their own internal software updates, rather than needing an IT professional to do updates.

Can students use their own computers at school or be able to install their own software on the iPads?
- No. Students will be expected to use school computers at school.
- The district couldn't effectively control virus issues if unapproved technology was allowed into the network.
- District personnel will decide what software will be approved for personal use.

How will the effectiveness of this initiative be measured?
- Statistics and evidence will be gathered from attendance data, observation of motivation/student engagement, the number of behavior referrals, and student achievement data.

Why do teachers also need to be provided with an iPad through this initiative?
- Teachers need to reach a level of expertise before they can facilitate learning.
- Planning for appropriate, quality instruction often takes place outside of the school day.
- Recording and evaluating student work with quality feedback for student improvement may also take place outside of the school day.
- Using like systems improves communication between students, parents, and staff.
- Teachers, themselves, are producers of knowledge. As professionals, teachers are often authoring teaching materials to fit the unique characteristics of their classes. They continually are devising new and improved ways of doing every aspect of their jobs.