

21st Century Schools Recommendations

Integrate Technology

- Survey Broadband Access and develop plan to provide access. This should be done in conjunction with GITA and Commerce.
- Each new building shall have a Local Area Network that should be part of a district wide area network including voice, data, and video.
- Wireless infrastructure including new cabling standards
- Hard wire infrastructure of at least six drops per classroom. This system will support the wireless system.
- For grades K-3 a ratio of 1:2 personal computing device
- For grades 4-12 a ratio of 1:1 personal computing device
- Electronic visual displays in each classroom
- Physical Characteristics to Enhance Technology Use (lighting, power, data connections, furniture)

Create Personalized Instructional Environments/ Foster Productive Relationship-Building

- Classroom Size of at least 900 sq. feet (regardless of class size)
- Acoustical performance standards, both exterior noises into the classroom and acoustic performance within the classroom.
- Each classroom should have a window
- Multiple switching for lighting controls capable of providing multiple lighting levels and isolating breakout areas.
- Provide 3 sq. feet per pupil in outdoor learning spaces including shade covering.
- Institute a design award program to highlight best designs for personalized learning environments.
- Media Center Changes – Attitude/Furniture/Equipment
- Create extra classroom spaces for personalized learning including resource rooms, transitional spaces, and media centers 1.5 square feet per pupil.

Ensure Safety

- Exterior Lighting
- Administration office location
- Classroom door hardware
- Maze entries for bathrooms
- Vestibule entries

- Sidelights in classroom doors
- Improved perimeter fencing
- Security/panic alarms including dialers
- Security cameras
- Create account with 211
- Telephone capabilities for each classroom

Maximize Energy and Water Efficiency

- Executive order standards (LEED Silver, 10 percent renewable energy). However, the SFB should insist that when obtaining LEED silver, the school should maximize the points from energy and water efficiency.
- The Governor should appoint a special committee with representatives from Commerce, the SFB, school districts, the utilities, and private industry that should review emerging renewable energy technologies that can be effectively applied and tested at schools.
- Proper sizing of mechanical equipment (including central plants when appropriate)
- Day lighting
- Waterless urinals
- Drought tolerant tree canopies
- Effluent water where available for landscaping and toilet flushing
- Exploration of rain water runoff capture and utilization
- Exploration of artificial turf

School Size

- Multiple sizes depending on local district environment

Classroom Size

- K-3: 900 sq. feet for 15 students (assumes full day kindergarten)
- 4-12: 900 sq. feet for 25 students
- To achieve the above standards, the per pupil square foot amount awarded by the SFB will have to be increased for K-3 from 80 square feet per pupil to 105.5.

Funding

- Debt financing when market conditions are right
- Shared facilities with investment from district public partners.

- Public private partnerships that allow for private ownership of school district utilities
- Partnerships to bring specialized equipment and programming into schools.

Innovation

- Design competitions and awards
- In cooperation with the three Universities, develop a demonstration school. In partnership with school component vendors, this school would house and showcase cutting edge designs and equipment. The university could use the school to expose education students to the latest technologies and designs. Private vendors would use the school to showcase their latest innovations. Districts could use the school to expose teachers, students, parents and administrators to the latest educational innovations.