



CJ²

Schools NEXT Project Slideshow

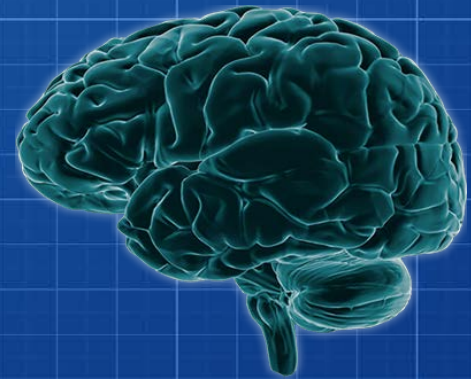


Assignment

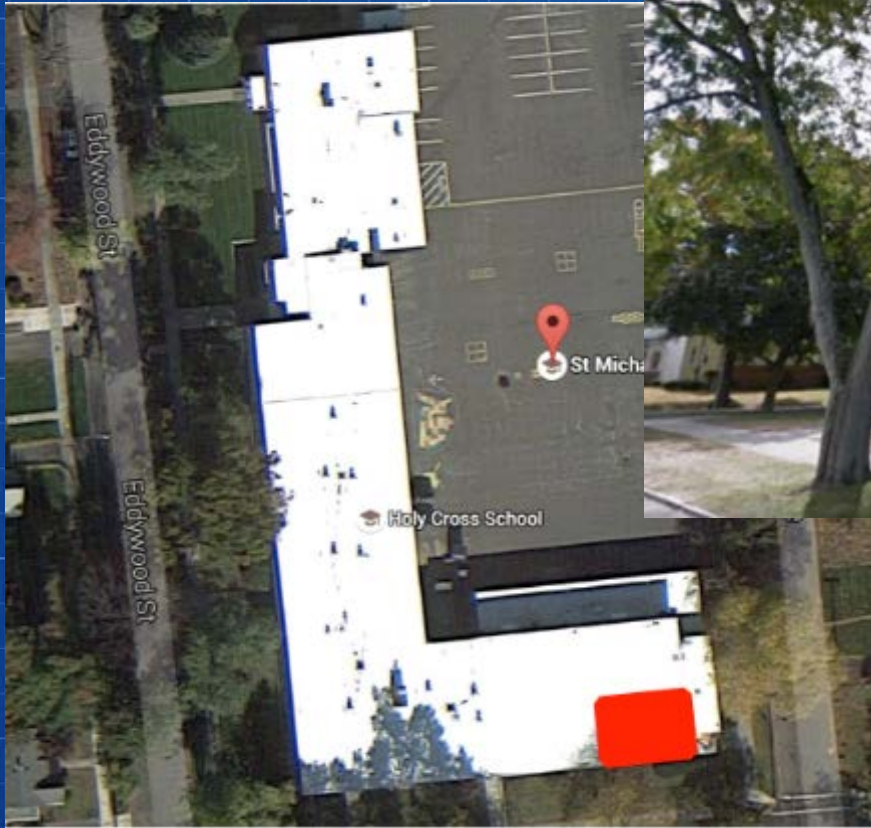
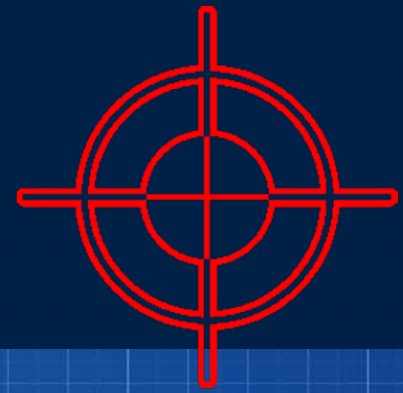
- ◆ Design our perfect classroom
- ◆ SchoolsNEXT Requirements: 3D Model, 2D Model, Essay, Presentation
- ◆ Additional requirement: Budget
 - ◆ given \$2 million
- ◆ We focused on 4 aspects- Purpose, Adaptations/ Physical Features, Green Technology, and Usage/ Community Involvements

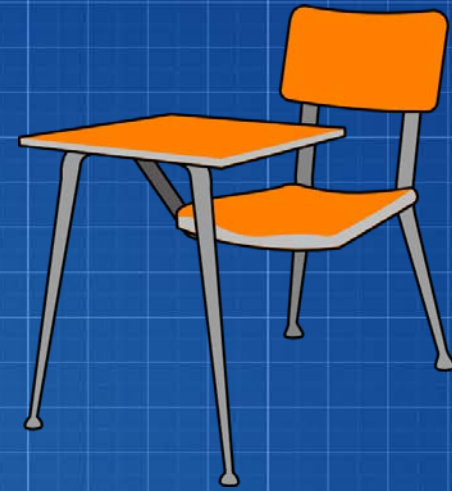
Main Purpose

- Literature & grammar (8th grade)
- Location
 - St. Michael's Academy (above gym)
 1. eighth grade needs a dedicated literature room
 2. school needs another space for events
 3. most realistic for budgeting
- Focused- keep the students listening to the teacher



Location

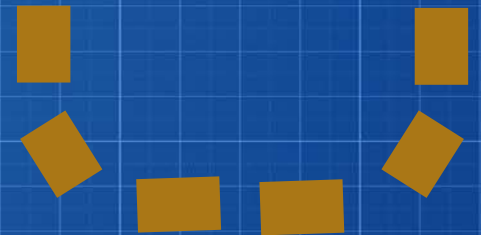
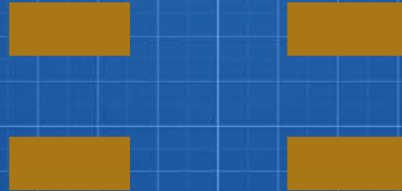
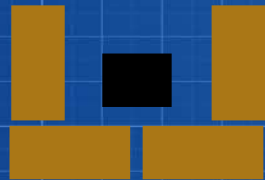




Special Adaptations



Desks/ Seating



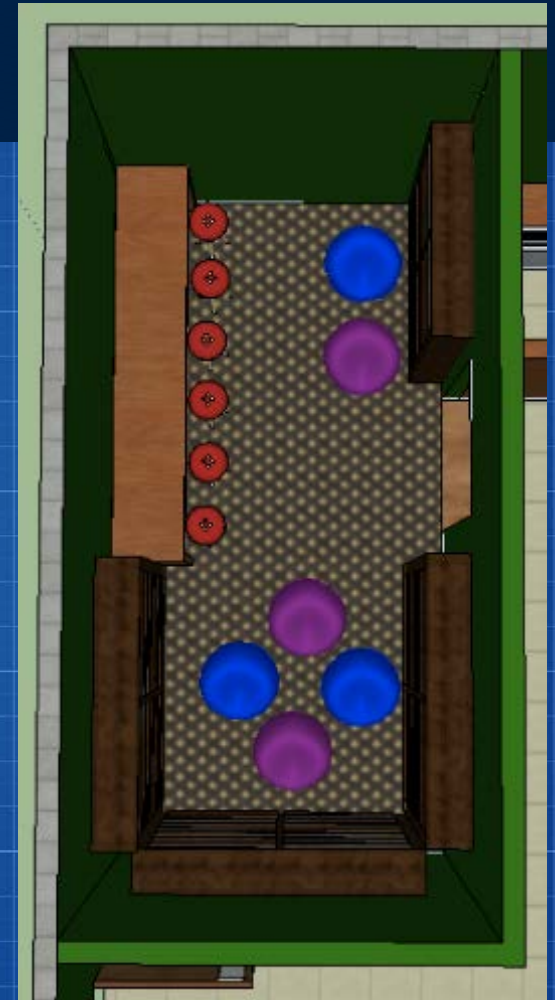
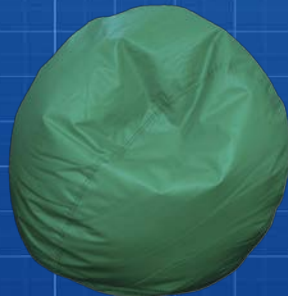
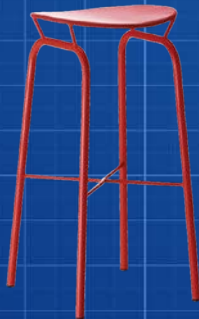
Small group seating
(MAIN)
- bucket in middle to
organize supplies

Test taking/ individual
work – rows and
columns

Class wide discussions

Library

- Narnia theme
- Room for over 2,500 books
- Seating for different tasks
 - beanbags for reading
 - counter for written and computer work
- lights dim for different tasks



Stage

- ◆ Area to teach, speak, present, act, brainstorm
- ◆ Fully wheelchair accessible
- ◆ SmartBoard connects to teacher's computer
- ◆ Accompanied by smaller whiteboard
- ◆ Wood is repurposed



Moving Counters

- Counters are designed to detach and roll around
- When flipped, a new set of books can be accessed
 - Allows division of literature textbooks and textbooks for other classes held in the room
- Can be rolled out of classroom to make more space for events



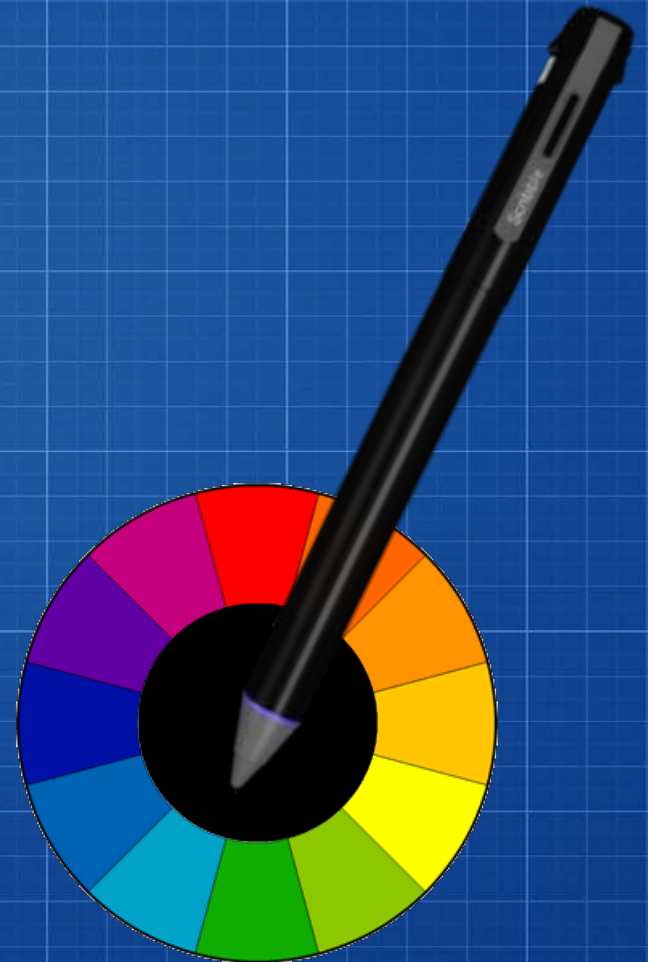
SmartBoard

- ◆ Newest model
- ◆ Attached to rail that allows SmartBoard to move and uncover white board
- ◆ Allows for the viewing of presentations, webpages, videos and more
- ◆ Notes save and can be presented multiple times
- ◆ Student computers can connect
- ◆ Colors can be inverted to aid the visually impaired



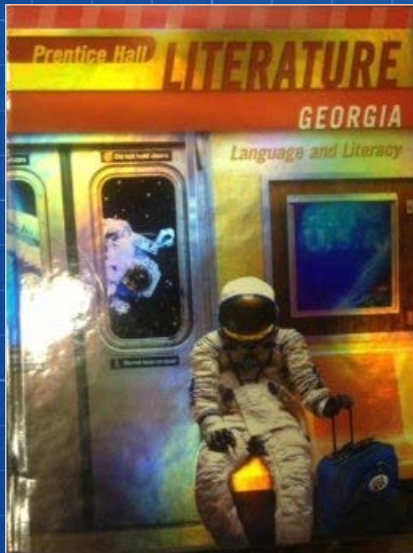
Multi-colored Ink Pens

- Can scan any color, and then write in that color
- Each desk will have a color palate
- Refillable ink
- Eliminates pen use

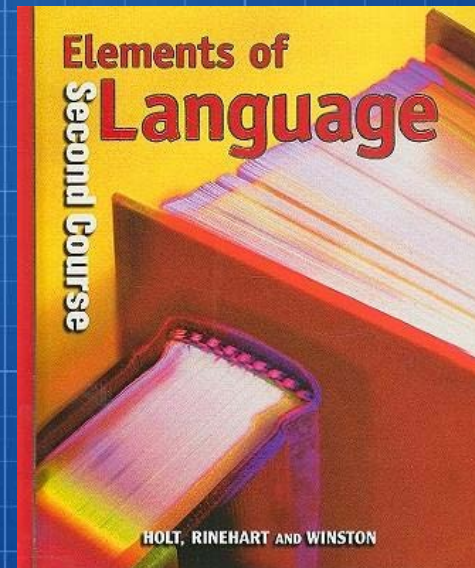


Textbooks

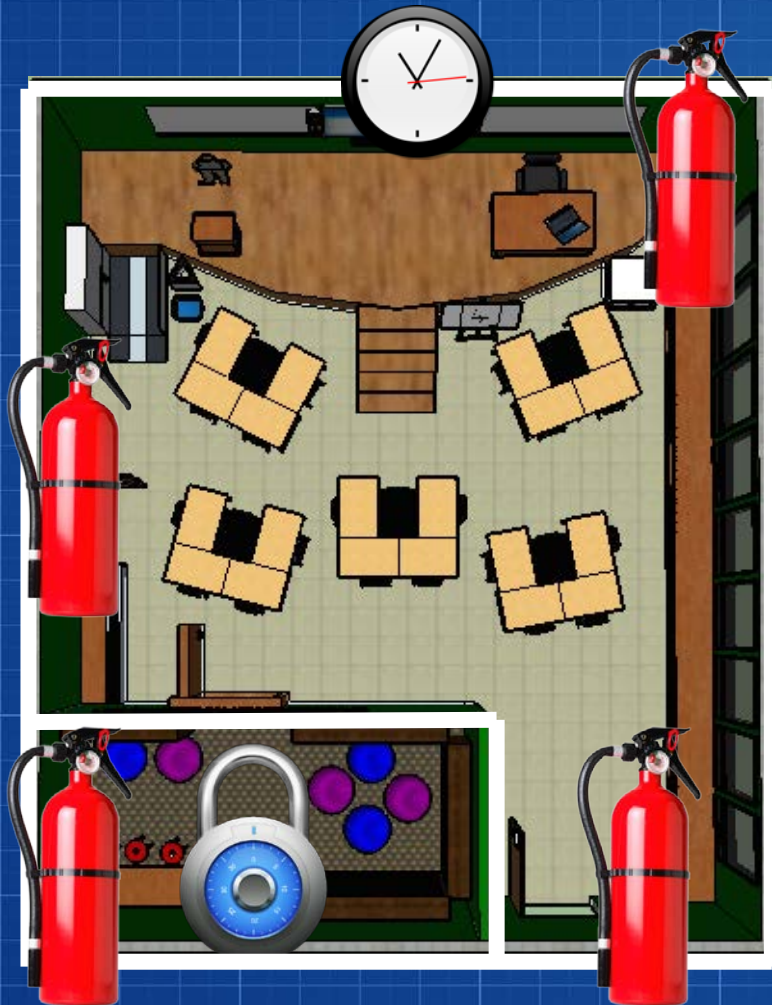
Prentice Hall Literature
(8th grade)



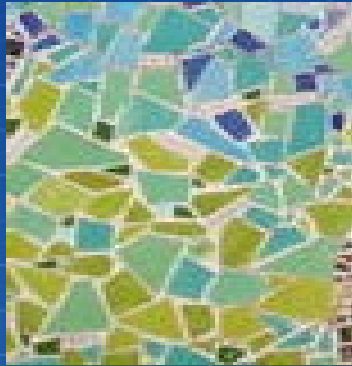
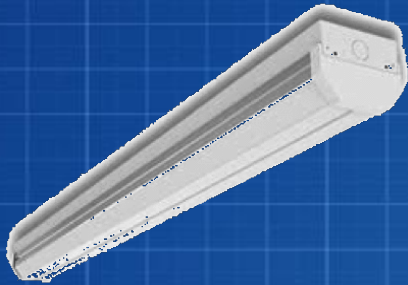
Elements of Language
(Second Course)



Fire and Lockdown safety



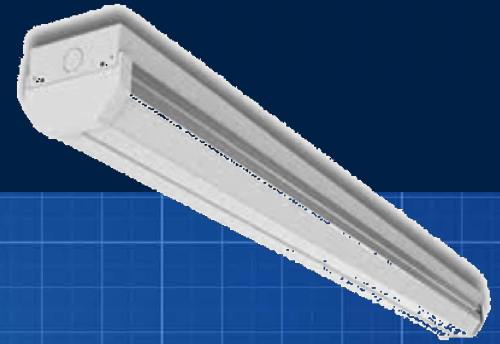
- Fire extinguishers are by every exit and conform with OSHA standards
- All walls & ceiling tiles are least 1-hour fire rated
- Narnia serves as a lockdown room, as it locks from the inside & outside



Green Technology



Lighting



- LEDs (T8)
 - 40 times more efficient than incandescent bulbs
 - 5 times more efficient than CFLs
- Closest to natural sunlight
- Recommended by Energy Star guidelines

Windows

- 270 square feet of windows
- 5 skylights
- facing south, meaning maximum sun in the winter
- PollenTec screens block out pollen and dust
- double-paned
 - helps to reduce sound
 - reduces energy consumption by 24% in winter
18% in summer

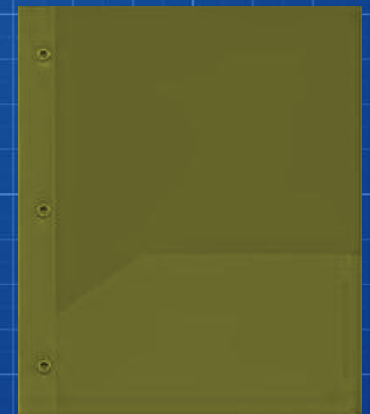


Structure

- ◆ Tile and hardwood
 - ◆ Sourced from Brookings school
 - ◆ Reusing is greener than recycling



- ◆ Folder Wall Organizers
 - ◆ Made from reused folders and binder dividers



Air Quality

- covers two Energy Star classroom factors: *Acoustic Comfort* and *Air Quality*
- two air purifiers
 - energy efficient- when the air is clean of pollutants, they turn off
 - quiet- essential for a classroom





BIG AS[®]

FANS



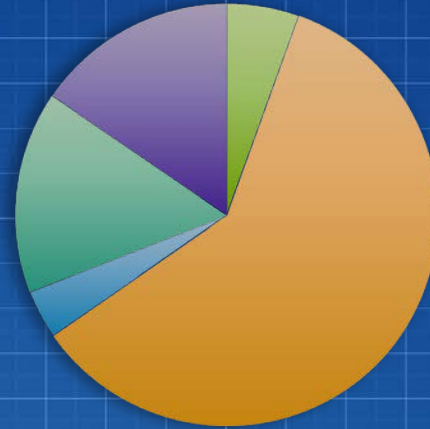
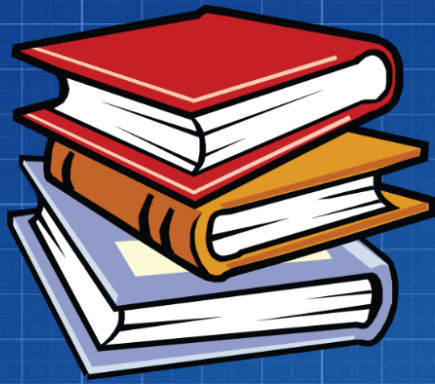
- ◆ In winter: lowers heating bill by blending air to a uniform temperature
- ◆ In summer: increases air movement, making air feel up to 10° cooler and increasing productivity
- ◆ 12 times more efficient than Energy Star guidelines and 8 times more efficient than ordinary ceiling fans



Outside of classroom

\$250,000 will be donated to St. Michael's Academy to help fund additional green possibilities, such as:

- ◆ solar panels
- ◆ Biomass heating and ice-powered cooling
- ◆ replace all lighting with energy-efficient counterparts
 - ◆ Disposal of old lighting (CFLs) through a program run by the Home Depot

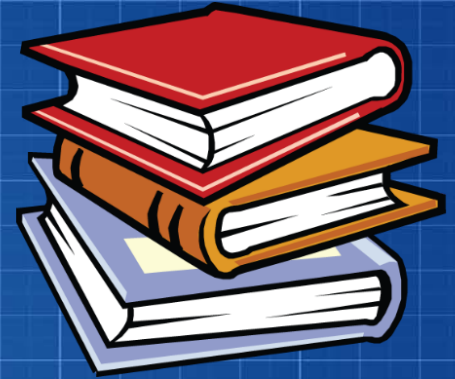


Usage



Inside school community

- students and teachers from all grades could borrow from the library (teachers could also keep their small collection there)
- room could be loaned out for project presentations, meetings, small drama productions etc.
- more chairs could be brought in for larger gatherings



Outside school community

SPREAD OF LITERATURE & USAGE OF BUDGET ISN'T LIMITED TO THE ROOM

- ◆ Used books will be donated to local organizations, or could be sold to raise money for charity
- ◆ English language classes & citizenship classes

English Language Classes

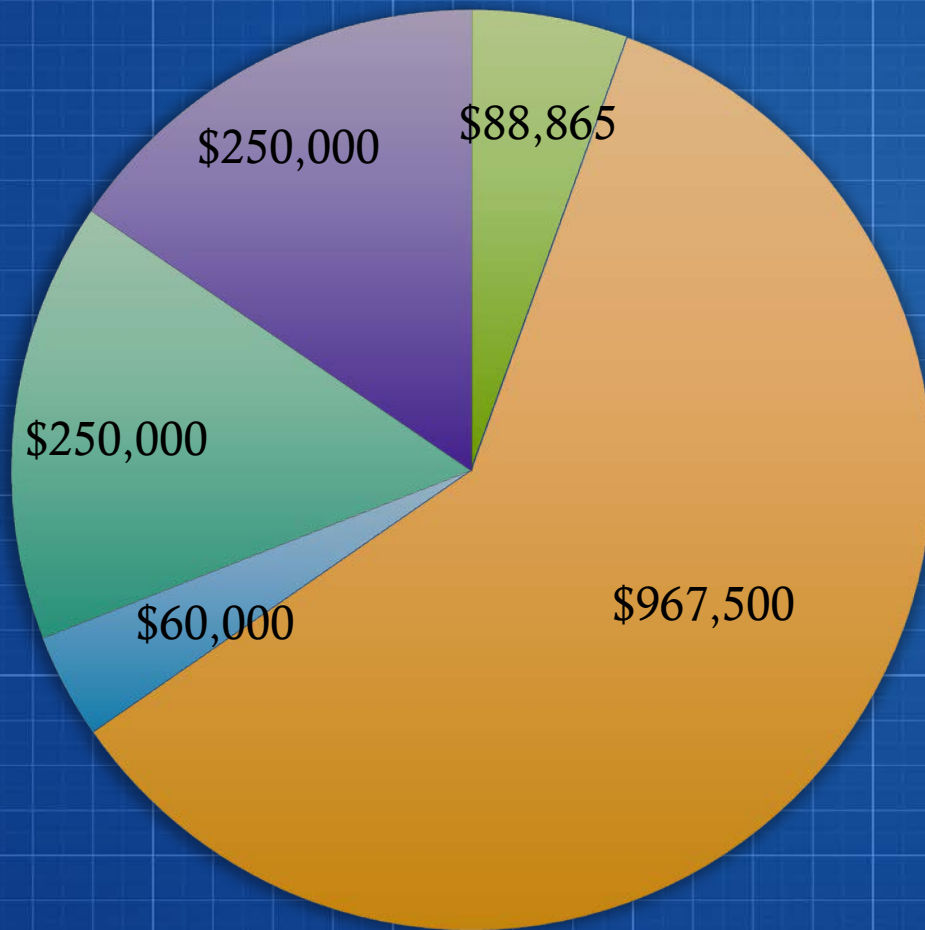


- ◆ **11% of Springfield's population was born outside of US**
- ◆ Paid, professional teacher / Volunteers from local colleges
- ◆ Four out of the five days in the school week will be used for English classes
- ◆ Classes last from 6-9
- ◆ 13-15 students per class
- ◆ Classes are free due to grants funded by the MA Department of Elementary and Secondary Education Adult and Community Learning Services

Citizenship Classes

- ◆ Citizenship classes meet once a week for a two hour class
- ◆ Class sessions will last eleven weeks
- ◆ One time fee of \$50
- ◆ The classes will be taught by paid teachers and some volunteers
- ◆ Classes will be taught in English but the teachers will understand and speak a variety of languages
- ◆ Grants will be applied for from United States Citizenship and Immigration Services

Breakdown of budget



- Furniture and Supplies
- Building
- Additional Services
- Teacher Supply Fund
- SMA Donation

Total Room Estimate:

\$1,116,365.00

Total Budget Spent:

\$1,616,365.00



Wrap-up



- It shouldn't matter what goes in, as long as an educated and ready student comes out
- The key is to match what the students know they like in a classroom with what the teacher knows they need to teach
- Adjust to each student's style



THANK YOU
for your time & consideration

Sources: Kenny Szmyt (Carpenter), Rich Chambers (Masonry Expert), Roy's Home Improvement, *RSMMeans Residential Repair and Remodeling Costs* (RSMMeans, 2010)