

Open Community Forum

May 2, 2017







Agenda
Metropolitan School District of Washington Township

05.02.17

- 1. Welcome
 - introductions / why we're here
- 2. Setting the Stage
 - process overview / what to expect
- **Exploring What's Possible**
 - learning spaces in the 21st century
- 4. How You Can Help
 - we want to hear from you!
- 5. Next Steps

stay tuned!



Metropolitan School District of Washington Township

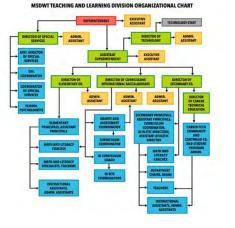
Project Leadership & Oversight





CSO Architects

Architect for New Elementary Schools



MSDWT Teaching and Learning Division

Championing Educational Needs

MSDWT Special Services & Student Programs Divisions

Representing Student Needs

MSDWT Human Resources & Business Services Divisions

Supporting Staff & Financial Needs

MSDWT Operations Division

Maintaining Facilities/Physical Needs

MSDWT Community Members

Representing Community Needs







MSDWT Students

t's on a

A variety of Focus
Groups to gather
ideas and insights
from our most
important experts!



hypercube desks

BrainSpaces - Who We Are:

- Architects & Educators
- Planning for Brain-Based Learning Environments
- Collaborating with Clients around the world
- Internationally Recognized for Holistic Design
- Award-winning school designs













Setting the Stage Metropolitan School District of Washington Township

05.02.17

- What are Educational **Specifications?**
- 2. Why do we need them?
- 3. How will we develop them?
- 4. What will they include?
- 5. How will they be used?

vision

collaboratively developed principles which will guide decision-making throughout the project

Educational Specifications

1000 functions

(current & future)
Curriculum
Educational Activities
User Characteristics
Flexibility goals
Community Use
Administration
Future programs
Technology Use
Adaptability
Partnerships

Students

Business Partners
Teachers & Staff
Leadership & Administrators
School Districts & Agencies
Funding Sources
Community Members
Parents & Siblings
Neighbors
etc.

spaces

Quantitative definition of spaces
Qualitative definition of spaces
Multi-Use opportunities
Adjacency requirements
Required space attributes
Technology requirements
Design considerations
District design guidelines

What are Ed Specs?







"Givens"

- accommodate capacity
- support teaching & learning
- safety / security
- code compliance
- healthy systems
- technology

Interpret "Givens"

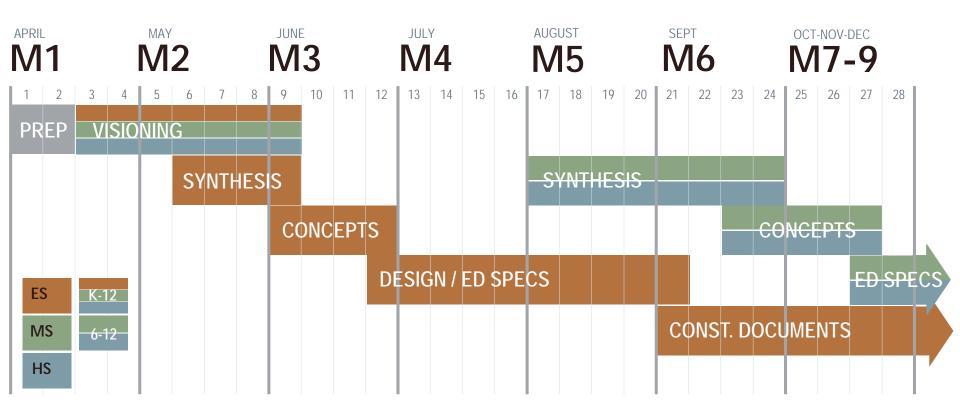
- translate needs into spaces
- define educational effectiveness

- connect facilities and learning
- consider future adaptability

Road Map for Design

ny Ed Spe

timeline designed for efficiency & effectiveness

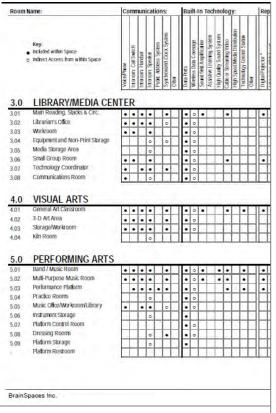


benchmarks include:

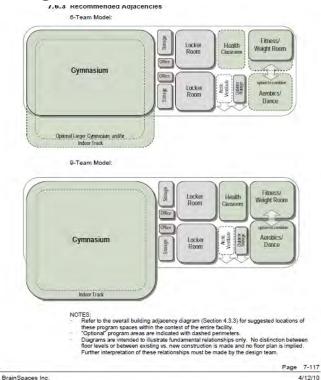
quantities

Namel-fundon Lifeskills (Basic Life Skills) Lifeskills 2 (Intensive Needs) Intensive Needs Changing Intensive Needs Restroom OT/PT Equip, Storage Autism Classroom Sub-total IBRARY/MEDIA CENTER Namel-fundon	Qty. 1 1 1 1 1 1 1	1,200 1,200 100 100 120 80 900	1,200 100 120 80	1,200	1,200 1,200 100 100 120 80	Qty. 2 1 1 1 1	1,200 1,200	Required	Op
Lifeskills 2 (Intensive Needs) Intensive Needs Changing Intensive Needs Restroom OT/PT Equip, Storage Aufsm Classroom Sub-total IBRARY/MEDIA CENTER	1 1 1 1	1,200 100 120 80	100 120 80		1,200 100 120 80	1	1,200		
Intensive Needs Changing Intensive Needs Restroom OT/PT Equip. Storage Aufsm Classroom Sub-total IBRARY/MEDIA CENTER	1 1 1 1	100 120 80	100 120 80	900	100 120 80	1		1,200	
Intensive Needs Restroom OT/PT Equip. Storage Autsm Classroom Sub-total IBRARY/MEDIA CENTER	1 1	120 80	120 80	900	120 80		100	100	
OT/PT Equip. Storage Autsm Classroom Sub-total IBRARY/MEDIA CENTER	1	80	80	900	80		120	120	
Aufsm Classroom Sub-total IBRARY/MEDIA CENTER	4	900		900	gon	1	80	80	
Sub-total IBRARY/MEDIA CENTER						i i	900		
			1,500	2,100	3,600			1,500	- 3
Name/Function	6 T E	AMS				9 TE	AMS		
	Qty.	Each	Required	Optional	TOTAL	Qty.	Each	Required	Op
Main Reading, Ref., Stacks & Circ.	1	4.000	4.000	_	4.000	1	4.500	4,500	_
Librarian's Office	1	150	150		150	1	150	150	
Workroom	1	350	350		350	i i	400	400	
Equipment and Non-Print Shrage						l i			
			100	200				100	
			200					200	
Sub-total	-	200	5.200	200		-	200	5.800	
ISHAL ADTS	6 TE	2MA	04.07		0,000,00	o TE	ΔMS		
			Regulared	Ontional	TOTAL			Remired	Or
		1.200				1			
		400		400		1			
			150		17.5		1,000		
Sub-total	i i	100							
			1,500	400	1,900	i		1,900	
EREOPMING ARTS	6 TE	ΔMS	1,500	400			AMS	1,900	
ERFORMING ARTS Name/Function	6 TE	AMS Each	1,500 Required	400 Optional			AMS Each	1,900 Required	Ор
				-	1,900	9 TE			Ор
Name/Function Band / Music Room	Qty.	Each	Required	Optional	1,900	9 TE	Each	Required	Ор
Name/Function	Qıy.	Each 2,000	Required 1,800	Optional 200	1,900 TOTAL 2,000	9 TE Qty.	Each 2,000	Required 2,000	Ор
Name/Function Band / Music Room Multi-Purpose Music Room	Qty.	2,000 1,000	Required 1,800 1,000	Optional 200 1,000	1,900 TOTAL 2,000 2,000	9 TE Qty.	2,000 1,000	Required 2,000 2,000	Ор
Name/Function Band / Music Room Multi-Purpose Music Room Performance Platform (stage/music)	Qty. 1 2 1	2,000 1,000 1,600	Required 1,800 1,000 0	Optional 200 1,000	1,900 TOTAL 2,000 2,000 1,600	9 TE Qty.	2,000 1,000 1,600	Required 2,000 2,000 1,600	
Name/Function Band / Music Room Multi-Purpose Music Room Performance Platform (stage/music) Practice Rooms	Qty. 1 2 1 3	2,000 1,000 1,600 80	Required 1,800 1,000 0 240	Optional 200 1,000	1,900 TOTAL 2,000 2,000 1,600 240	9 TE Qty. 1 2 1 4	2,000 1,000 1,600 80	Required 2,000 2,000 1,600 320	
Name/Function Band / Music Room Multi-Purpose Music Room Performance Platform (stage/frusic) Practice Rooms Music Office/Workroom/Library	Qty. 1 2 1 3 1	Each 2,000 1,000 1,600 80 250	Required 1,800 1,000 0 240 250	Optional 200 1,000	1,900 TOTAL 2,000 2,000 1,600 240 250	9 TE Qty. 1 2 1 4	2,000 1,000 1,600 80 300	Required 2,000 2,000 1,600 320 300	
Namo/Function Band / Music Room Multi-Purpose Music Room Performance Platform (stagefinusic) Practice Rooms Music Office/Norkroom/Library Instrument Storage Platform Control Room	Qty. 1 2 1 3 1 1 1	Each 2,000 1,000 1,600 80 250 250 80	Required 1,800 1,000 0 240 250 250	Optional 200 1,000	1,900 TOTAL 2,000 2,000 1,600 240 250 250 80	9 TE Qty. 1 2 1 4 1 1	2,000 1,000 1,600 80 300 250 80	Required 2,000 2,000 1,600 320 300 250	
Namo/Function Band / Music Room Multi-Purpose Music Room Performence Pletform (stagelmusic) Practice Rooms Music Offico/Norkroom/library Instument Storage Pletform Control Room Dressing Rooms	Qty. 1 2 1 3 1 1 1 2	Each 2,000 1,000 1,600 80 250 250 80 100	Required 1,800 1,000 0 240 250 250 80	Optional 200 1,000 1,600	1,900 TOTAL 2,000 2,000 1,600 240 250 250	9 TE Qty. 1 2 1 4 1 1 1 2	2,000 1,000 1,600 80 300 250 80 100	Required 2,000 2,000 1,600 320 300 250	
Namo/Function Band / Music Room Multi-Purpose Music Room Performance Platform (stagefinusic) Practice Rooms Music Office/Norkroom/Library Instrument Storage Platform Control Room	Qty. 1 2 1 3 1 1 1	Each 2,000 1,000 1,600 80 250 250 80	Required 1,800 1,000 0 240 250 250 80 0	Optional 200 1,000 1,600	1,900 TOTAL 2,000 2,000 1,600 240 250 250 80 200	9 TE Qty. 1 2 1 4 1 1	2,000 1,000 1,600 80 300 250 80	Required 2,000 2,000 1,600 320 300 250 80	Ор
	Equipment and Non-Print Storage Models Storage Area Small Group Room Technology Coordinator Communications Room Sub-total ISUAL ARTS Namof-unction General Art Classroom 3-D Art Alcove Storage/Workcoom Kill Room Kill Room	Equipment and Non-Print Storage Mode Storage Area Small Group Room Technology Coordinator Communications Room Sub-total	Equipment and Non-Print Sorage 1 200	Equipment and Non-Print Storage 1 200 200	Equipment and Non-Print Sorrage 1 200 200	Equipment and Non-Print Storage 1 200 200 200 200 200 100 100 100 200 200 200 1 200 200	Equipment and Non-Print Storage 1 200 200 200 1	Equipment and Non-Print Sbrage 1 200 200 200 1 250 250 Mode Sbrage Area 1 100 100 100 100 1 100 200 2 200 2 200 2 200 2 200 1 200 2 200 2 200 1 200 2 200	Equipment and Non-Print Storage

qualities



adjacencies





Benchmarks

#	CORE LEARNING:
١	PK/ECE Classrooms
	Kindergarten Classrooms
	1st Grade Classrooms
	Grades 2-3 Classrooms
	Grades 4-5 Classrooms
	FLEX Classrooms
\	Bilingual Classrooms

٠	# Rooms	AVG. # Students	Area Per Student (+/-)	Benchmark NSF (+/-)
	Varies	20	45	900
	2	20	45	900
	3	24	35	840
	6	24	35	840
	6	24	35	840
	1-2	24	35	840
	Varies	20	35	700

SPECIAL PROGRAMS:

Self-Contained Classroom
Resource Classrooms
Reading Classrooms
Sensory/Calming Room
ELL Program
LEAP Classroom
Kinder Intervention

Varies	8	100	800
Varies	8	50	400
Varies	8	50	400
1	1	100	100
Varies	4	50	200
1	20	40	800
1	8	50	400

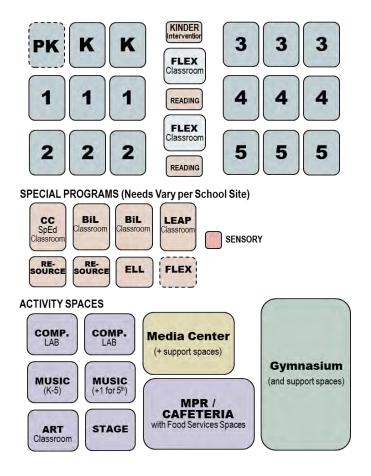
ACTIVITY SPACES:

Art Room
7111100111
Music Room
Computer Lab
Library/Media Center
Gymnasium
Cafeteria/MPR
Stage/Performance

1	28	50	1,400
2	28	35	980
2	28	60	1,680
1	28	60	1,680
1	28	125	3,500
1	150	15	2,250
1	28	40	1,120

description of exhibit:

BENCHMARKS shown in spreadsheet format



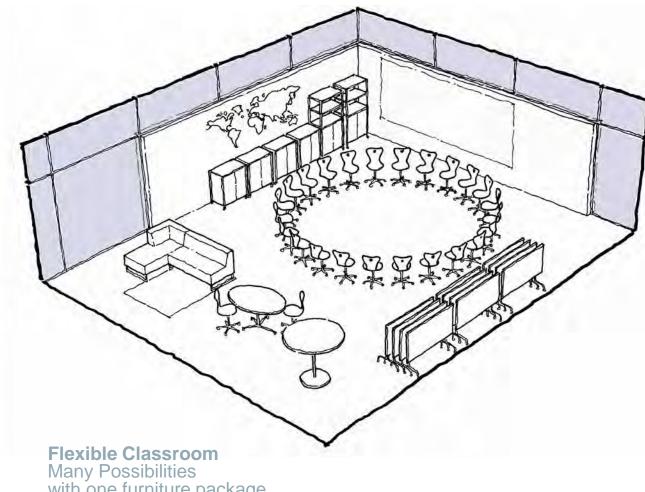
description of exhibit:

BENCHMARKS shown in graphic format

EXAMPLE:

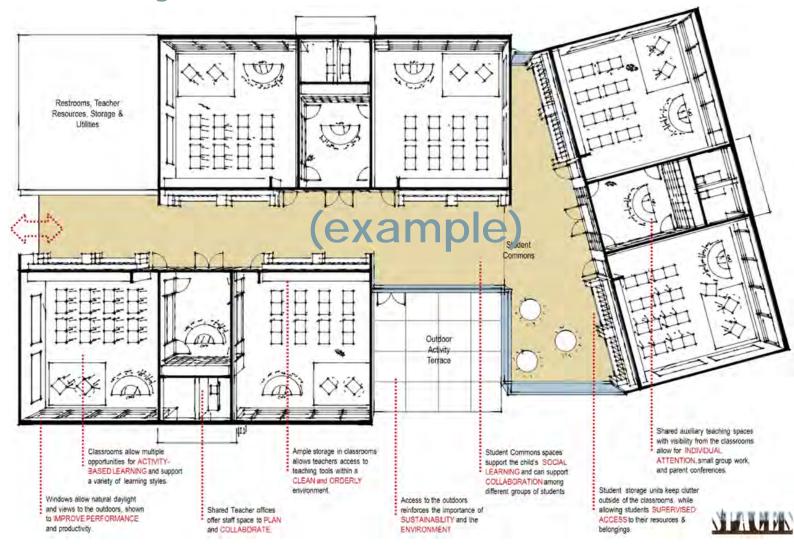
A LEARNING STUDIO

Individual Exploration Simultaneous Activities Variously Sized Groups Projects / Teams Whole Group Differentiated Learning



with one furniture package

Ed Specs will be used to develop 2 new elementary schools

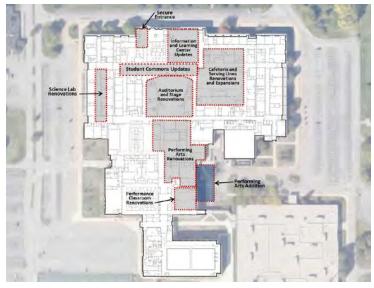


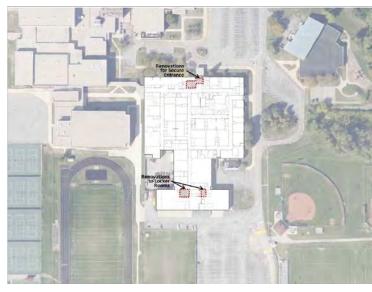
High School "Givens"

- 9-12 school for 3,500 to 4,000 students
- spaces conducive to conversation & dialogue
- space for small group work & professional collaboration
- improved sites & traffic flow
- safety & security
- code compliance, healthy systems, technology
- **Effective Educational Environments**



Specifications will **Interpret &** Fine-Tune Your "Givens" into **Specific Facilities Benchmarks**







Middle School "Givens"

- 6-8 schools for 800 to 1,050 students
- spaces conducive to conversation & dialogue
- space for small group work & professional collaboration
- improved sites & traffic flow
- safety & security
- code compliance, healthy systems, technology

Effective Educational Environments



Educational Specifications will **Interpret &** Fine-Tune Your "Givens" into **Specific Facilities Benchmarks**









Elementary School "Givens"

- K-5 schools for 650 to 725 students
- support space to meet program needs
- improved sites & traffic flow
- safety & security
- code compliance, healthy systems, technology

Effective Educational Environments















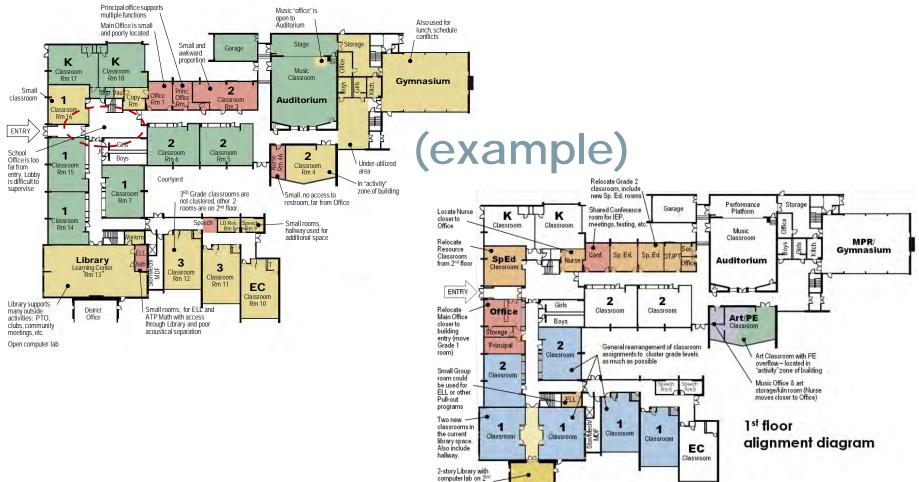












floor. 1st floor open

for community use.

PTO, Clubs, etc.

Educational Specifications will be used as guides to develop specific facility plans for each school in the district.

Library

Learning





xploring What's Possible etropolitan School District of Washington Township

05.02.17

- Research in Education
- Planning for the Future
- 3. Creative Examples





Apple Watch 2nd gen

Research: Neuroscience & Education



FNJOYABLE ACTIVITIES

Enjoyable activities elicit dopamine release which enhances learning naturally and chemically, while also reducing the secretion of stress hormones which can impede learning and increase anxiety.

FUN + CHALLENGING Effective approaches combine FUN with progressively increasing CHALLENGES.

EXERCISE IMPROVES LEARNING Exercise, which increases pre-frontal cortex activity, is a great way to build cognitive ability. Though some worry that physical education takes time away from classrooms, studies find strong evidence that PHYSICAL ACTIVITY improves academic performance.



THE WHOLE CHILD

Programs to enhance SOCIAL & EMOTIONAL development accelerate school achievement as much as interventions targeted at academic subjects.

A child's INTERNAL MOTIVATION is one of the most powerful tools for learning.



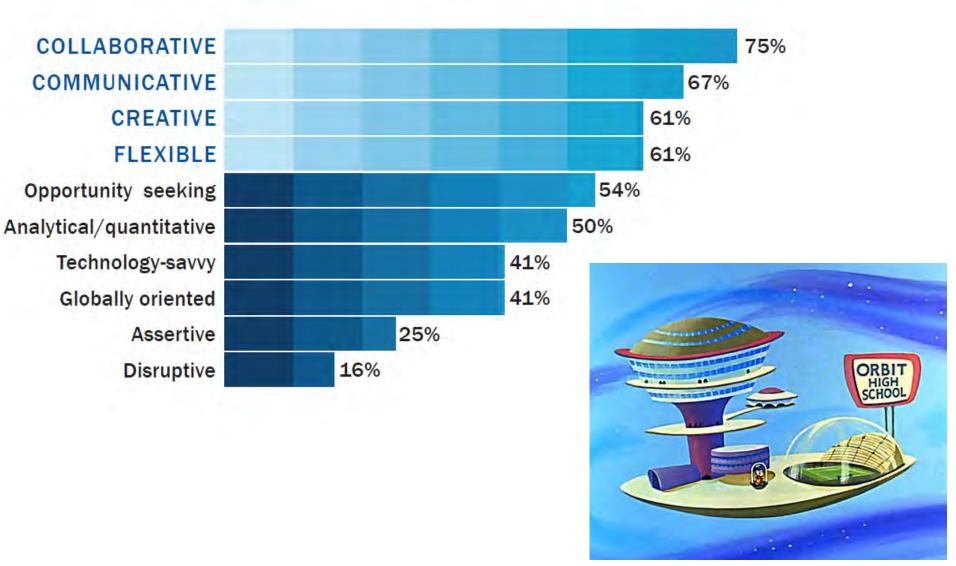


source: Sandra Aamodt (editor "Nature Neuroscience") & Sam Wang (Professor of molecular biology and neuroscience, Princeton) authors of "Welcome to Your Child's Brain: How the Mind Grows From Conception to College"



Metropolitan School District of Washington Township | Educational Specifications Session |

Top 4 Traits of "Future Proof"
Employees, According to 1,709 CEOs — Forbes



FROM THIS NOW ADD THIS

create alone create together

present design

right answers right questions

bring solutions seek / develop solutions

perfection mistakes allowed

introverted extraverted

closed / think quietly open / think out loud

appearance authentic

information gathered knowledge generated

memorizing understanding

65% of the children in preschool today will work in jobs

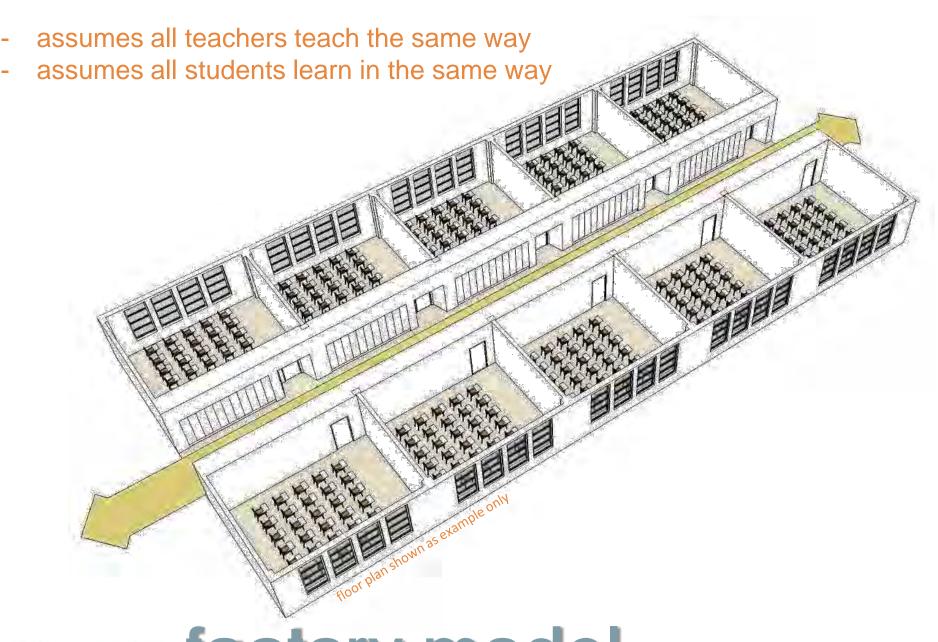




creative, engaged, focused, brilliant, independent, intelligent, collaborative, interactive, healthy...



passive, dull, uninspiring, predictable, regularized, lifeless, crowded, controlled, cold, inflexible, boring...



- varied selection of learning environments available
- learning extends beyond the school building
- **student-centered**, students as focus
- rooms accommodate various furniture layouts
- hands-on projects are supported
- visibility into classrooms
- easy access to student support services
- technology considered one of many tools available
- natural light is critical
- learning extends outdoors

Physical Characteristics: Metropolitan School District of Washington Township | Educational Specifications Session |



Thornebrooke Elementary School's teachers lounge boasts an institutional feel prior to its PTA-sponsored makeover by several savvy parents.



after

In honor of Teacher Appreciation Week, the teachers lounge at Thornebrook Elementary School is transformed into a cozy retreat that exudes an ambience of tranquility.



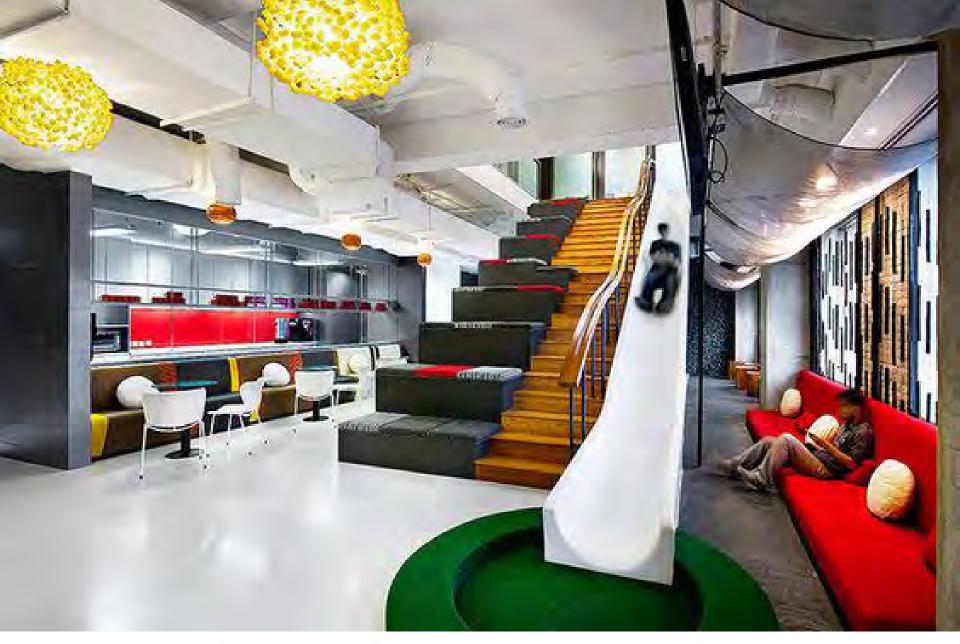
before



after

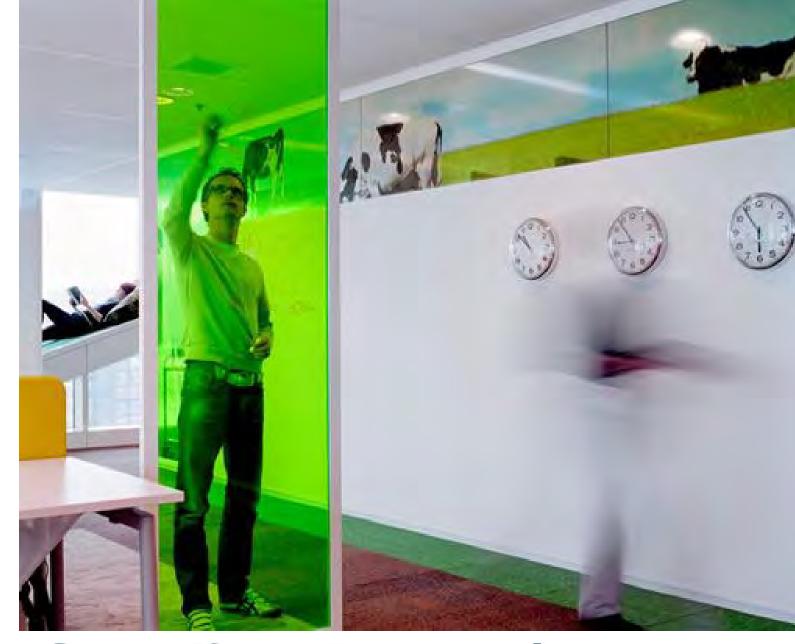
thoughtful vs expensive BrainSpaces: Uniting Education & Architecture







Metropolitan School District of Washington Township | Educational Specifications Session |











Perspectives Charter School Perkins+Will





How You Can Help letropolitan School District of Washington Township

05.02.17

- Research in Education
- Planning for the Future
- 3. Creative Examples
- 4. What do you think?

A Survey of Reactions:

For each of the images shown, answer the following:

1) I	Oo you have this type of environment in your schools? ☐ Yes ☐ No ☐ No ☐ Not sure
2) \	Nould you like this type of environment in your schools
	☐ Yes, here's what interests me:
	□ No, here's what concerns me:
	□ Not sure, it could be cool, but I worry about:

Amy's NOTE:

I'm thinking that we select 5-10 of the following images per table group. I'll create handouts for each table to record their responses for us to collect.

We could include all images in the on-line version (possibly grouped by ES/MS/HS). This could encourage folks to complete the survey on-line after they leave the session... The on-line version will also gather some demographic info we can use to sort responses.

I would also suggest having blank "comment cards" available for people to offer additional ideas via handing in the cards.







Experiencing Daylight



Window-Seat





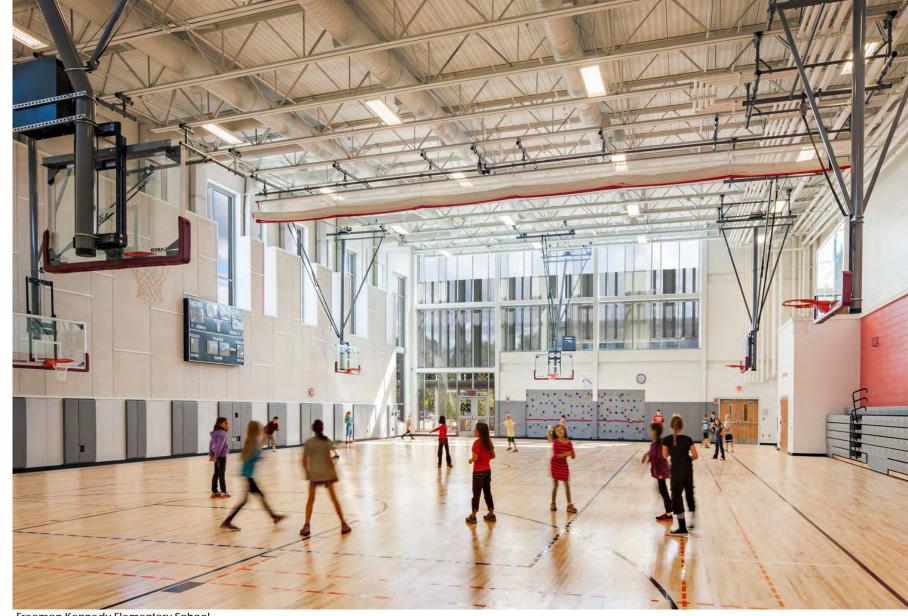
2-Story Commons



Freeman Kennedy Elementary School New Elementary School | Norfolk, MA



Community library



Freeman Kennedy Elementary School New Elementary School | Norfolk, MA

Community Fitness





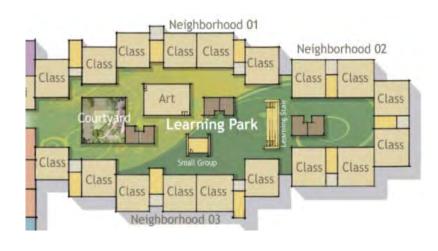






Community Commons









"Learning Park" Soaring Heights Elementary, Joplin, MO













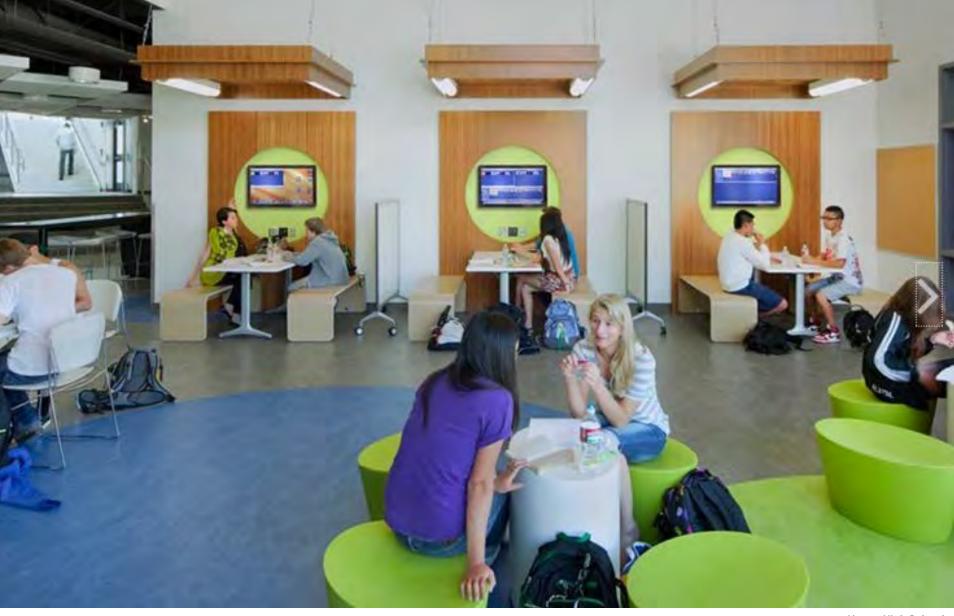
HIGH TECH MIDDLE SCHOOL

Metropolitan School District of Washington Township

Tinkering Space



Multi-Use Space



Hazen High School DLR Group

Metropolitan School District of Washington Township

Student Union



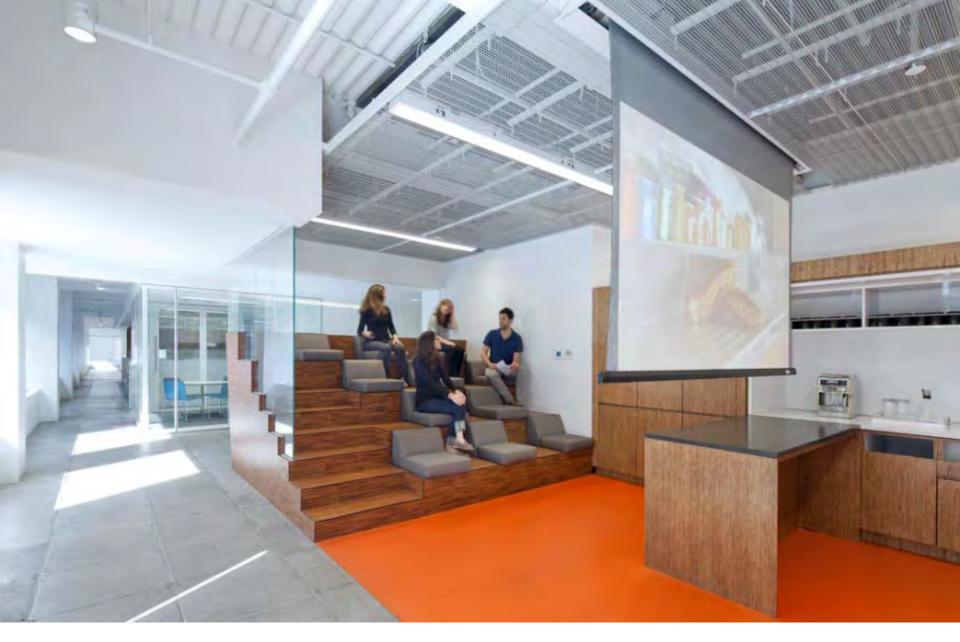
The Barrie School Hord Coplan Macht



Lincoln Middle School **BrainSpaces**

Metropolitan School District of Washington Township

Teacher Think Tank



Collaboration Space



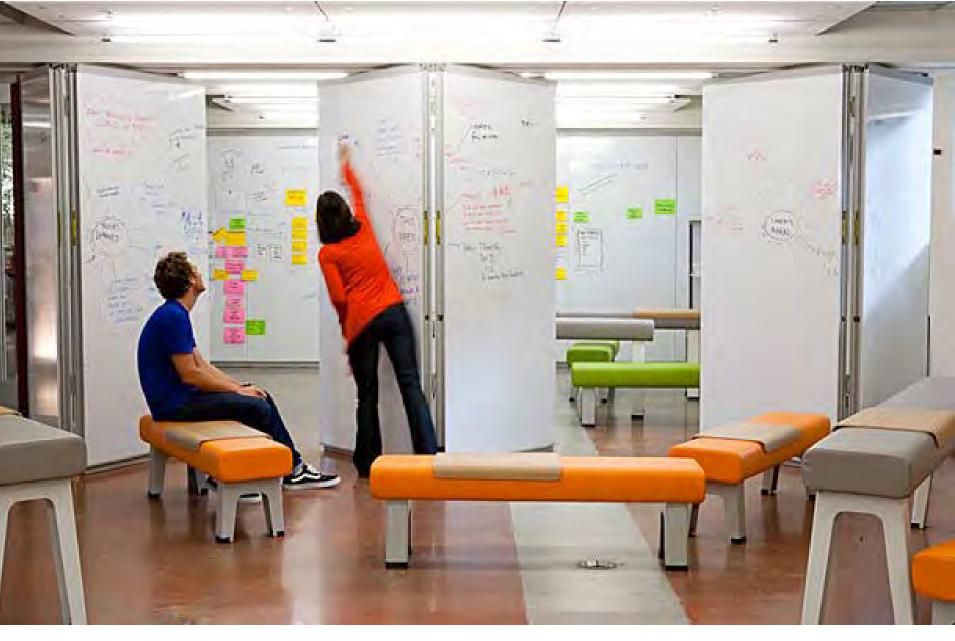
Madison Central Library MSR Architects





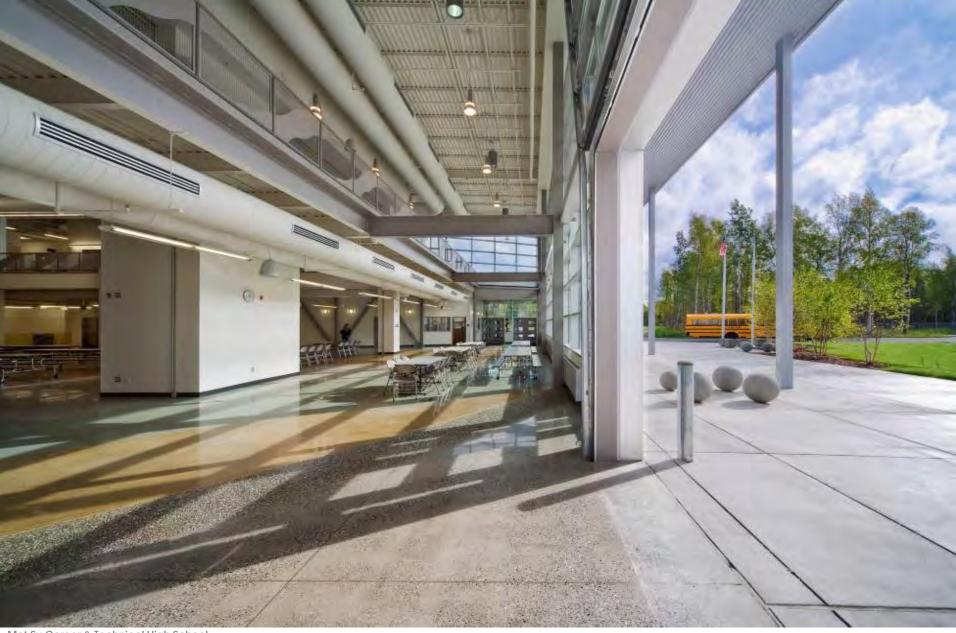
Outdoor Connections





Flexible Spaces





Mat Su Career & Technical High School
McCool Carlson Green

McCool Carlson Green Metropolitan School District of Washington Township

Outdoor Connections



Metropolitan School District of Washington Township | Educational Specifications Session | 05.02.17





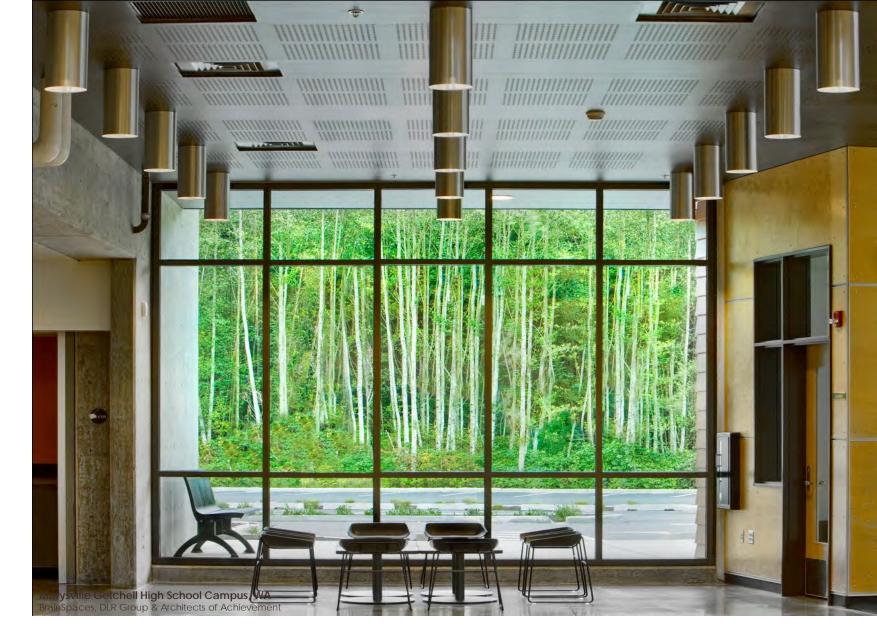
Westtown School Science Center **SMP Architects**

Tinkering Space





Flex Space





Views to Nature

Next Steps:

- Staff & Student Focus Groups discussions of specific spaces needed for teaching & learning
- Space Benchmarks translation of needs into spatial parameters
- Conceptual Planning for Elementary Schools

Conceptual site and building design

On-going Communications
 The District is committed to a transparent process, stay tuned!