

School Board Meeting – May 11, 2017

PURPOSE

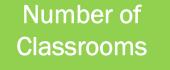
- Continued refinement of our methodology to calculate building capacity to ensure we are planning and providing optimum learning environments
- Quantify and articulate adequate auxiliary/small spaces outside of classrooms
- Ensure our planning tool is informed by instruction



DEFINITIONS

- **PROGRAM CAPACITY** is the student capacity of a school based on the optimum use of each learning space. It is how many students the building can support when the limitations of the program of study are applied. This is also referred to as functional capacity.
- CLASSROOM MULTIPLIER is the average of how many students should be in each classroom. The number is multiplied against the number of classrooms to determine capacity. This is also referred to a "student to classroom," "class size" or "student per teaching station" ratio.
- UTILIZATION FACTOR is a percentage applied to the capacity figure at secondary schools to account for learning spaces that cannot be used 100% of the time (i.e. 7 out of 8 periods).

METHODOLOGY





X



Utilization Factor (Secondary Only)

Which classrooms do we count?

What "class size" do we use?

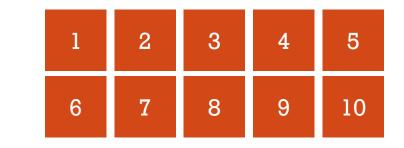
What factor do we use?



ELEMENTARY SCHOOLS - CURRENT

Count # of classrooms

Sample:



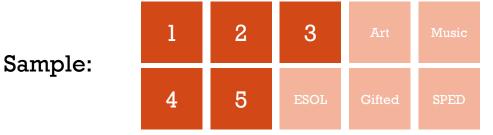


ELEMENTARY SCHOOLS - CURRENT



Reduce for:

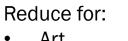
- Art
- Music
- Gifted
- SPED Resource
- Title 1
- ESOL





ELEMENTARY SCHOOLS - CURRENT

Count # of classrooms



- Art Music
- Gifted

٠

- SPED Resource
- Title 1
- ESOL

Multiply remaining classrooms by:

- x 8 for SPED
- x 16 for Pre-K
- x Classroom
 - multiplier *
 - for K-5





Count # of classrooms



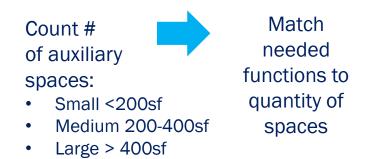


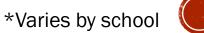
Reduce for:

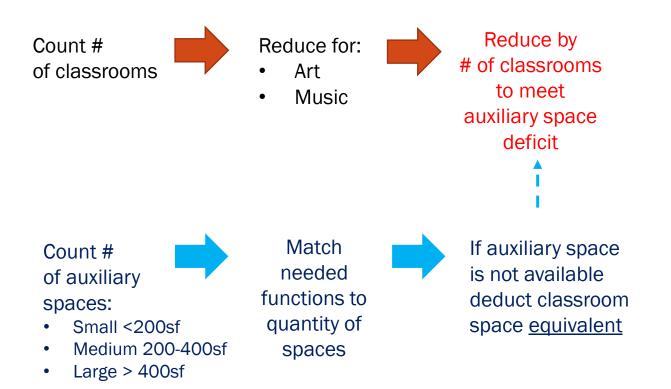
- Art
- Music
- Gifted
- SPED Resource
- Title 1
- ESOL

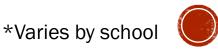


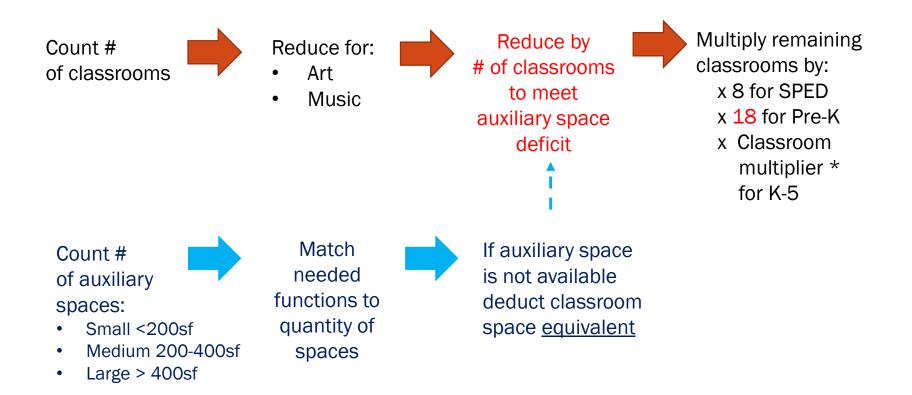


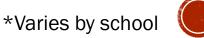












AUXILIARY SPACE NEEDS

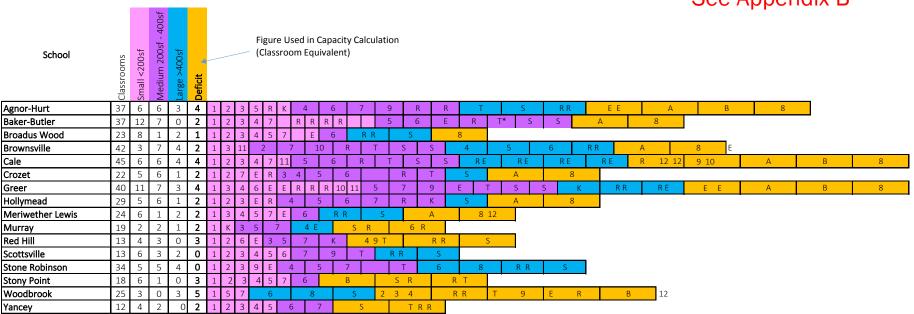
- PE Office
- EDEP Office
- Psychologist
- Speech
- Guidance
- Teacher Lounge
- Conference Room
- Family Support Workers

- SPED
- RTI and/or Title
- ESOL
- TDT (Region 10)
- A-Base
- B-Base
- FLES
- Gifted

Goal: Ensure all schools have adequate space for these needs based on their **population** and **size**.



Auxiliary Space Requirements by School



Key Function	Minimum Space Requirements
1 PE Office	Located in Gym
2 EDEP Office	Exceptions: Greer, MWL, Murrayneed to double check locations
3 Psychologist	Unless shared with guidance or speech, common in smaller schools
4 Speech	or
5 Guidance	or
6 Teacher Lounge	or Depends where it currently located, because often plumbing is associated with it
7 Conference Room	or
8 Gifted	exception -schools <300, gifted space is shared with library, art or other space
9 Family Support Worker	or Small if Brights Stars only, Medium if shared with K-5 FSW or Region 10
10 PT Guidance	or if >625
11 Second AP Office	if >700 or has a principal intern
12 FLES	Not private, just a workspace in a larger shared space if available
КК	or Depends where it currently located, because plumbing & Equipment is associated with it
A A Base	Cannot be shared
B Base	Cannot be shared
T TDT/Region10	
S SPED	or If < 550, Large ; If >500, Medium x 2
R RTI and/or Title	1 or 2 # of areas per space 2 areas *(exception BRN -3); If F/R >40%, 1 area* per 100 students
E ESOL	1 or 2 # of areas per space 1 area* per staff member; small if hourly





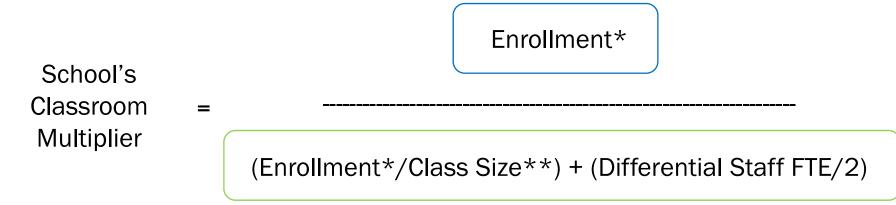
EXAMPLE

	AGNOR-HURT										
			2015,	/16		2017/18					
Room Total	37					37					
Art	(1)					(1)					
Music	(1)					(1)					
Gifted	(1)					0					
SPED Resource	(1)					0					
ESOL	(1)					0					
Title 1	0					0					
Auxiliary Deficit						(4)					
	<u>Qty</u>	<u>Multiplier</u>			<u>Total</u>	<u>Qty</u>	M	ultipli	<u>Total</u>		
SPED (SCC)	1	Х	8	=	8	0	Х	8	=	0	
Pre-K	1	Х	16	=	16	3	Х	18	=	54	
Pre-K SPED	0	Х	8	=	0	0	Х	8	=	0	
K-5	30	Х	18	=	540	28	Х	18	=	504	
BUILDING CAPACITY					564					558	



Formula for Classroom Multiplier (NO CHANGE):





TEACHERS

*Enrollment Used for Teacher Allocation in Budget Book **Class Sizes by Grade Levels in 2017/18 Budget:
K-3: 20.45 4-5: 22.85

6-8: 23.44 9-12: 23.1

KEY CHANGES

- Quantification and impact of small-space requirements
- Elimination of specific exclusions for Gifted, SPED, Title & ESOL
- Inclusion of new programs with space impact: FLES, A-Base, B-Base
- Additional reduction for Art & Music space for larger schools
- Increased Pre-K classrooms capacity to 18 to reflect current standards
- Updated K-5 classroom multipliers to reflect current staffing levels
- Updated to reflect recent construction projects which created or eliminated rooms



SCHOOL	Current	Pro- posed	Multi- plier	Construc- tion	SPED/ PK	Art/ Music	Aux- iliary	Net Difference	
Agnor-Hurt	564	558			+12		-18	-6	-1%
Baker Butler	636	636		+20		-20		0	0%
Broadus Wood	380	400					+20	20	5%
Brownsville	744	761	+36		+2	-21		17	2%
Cale	694	679		+19	+4	-19	-19	-15	-2%
Crozet	350	331					-19	-19	-5%
Greer	578	574		+18,+36	-4	-18	-36	-4	-1%
Hollymead	494	496			+2			2	0%
Meriwether Lewis	407	420			+13			13	3%
Murray	296	289	+14				-21	-7	-2%
Red Hill	178	162			+2		-18	-16	-9%
Scottsville	178	208	+9	+19	+2			30	17%
Stone Robinson	540	570			-10		+40	30	6%
Stony Point	244	236			-8			-8	-3%
Woodbrook	338	304			+2		-36	-34	-10%
Yancey	142	144			+2			2	1%
Elementary Total	6,763	6,768	+59	+112	+19	-78	-107	+5	1%

MIDDLE SCHOOLS - CURRENT

Count # of classrooms

- Reduce for:
- Computer
- SPED Resource
- Gifted
- ESOL
- Teacher Planning

Multiply remaining classrooms by:

- x 8 for SPED
- x 20 for CTE
- x 50 for gym
- x Classroom
- multiplier * for 6-8

Multiply by a utilization factor of 87.5% (7 out of 8 periods)

*Varies by school



MIDDLE SCHOOLS - PROPOSED

Count # of classrooms

- Reduce for:
- SPED Resource
- Gifted
- Teacher Planning x 3
- A-Base
- B-Base
- Health
- Computer
- ESOL

Multiply remaining classrooms by:

- x 8 for SPED
- x 20 for CTE
- x <mark>90</mark> for gym
- x 30 for aux.gym
- x Classroom multiplier *
 - for 6-8

Multiply by a utilization factor of 87.5% (7 out of 8 periods)

*Varies by school



CHANGES TO GYM CAPACITY

- The capacity of the gym was previously calculated at 50 students, based on the state's methodology.
- In reality, schools are typically scheduling 3 sections at a time with about 90 students total.
- Instruction is delivered in the gym, outside, and a health classroom.
- The health classroom is now an exclusion from the classroom count since students using that space are counted in the gym.
- With the addition of the multipurpose space at Henley, the inclusion of a multiplier for an auxiliary gym is proposed to be included.



UTILIZATION FACTOR

Seat difference 75% vs. 87.5%*						
Burley	51					
Henley	98					
Jouett	51					
Sutherland	43					
Walton	28					

*Assumes 3 teacher planning areas (1/grade)



MIDDLE SCHOOL - KEY CHANGES

- Inclusion of new programs: A-Base, B-Base
- Elimination of Computer Lab and ESOL exclusions
- Revision of how gym capacity is calculated
- Elimination of the delineation of CTE classrooms
- Ensured each school had three teacher planning areas
- Calculations reflect recent construction projects



Middle School	Current	Pro- posed	Multi- plier	SPED, Comp. CTE, ESOL	Construc -tion	Gym	Utili- zation Factor/ Misc.	Difference	
Burley	716	717				+17	-16	+1	0%
Henley	949	999		+28	+23	+17	-18	+50	5%
Jouett	733	717		-17		+17	-16	-16	-2%
Sutherland	737	653	-28	-35		+17	-38	-84	-11%
Walton	534	499		-35		+17	-17	-35	-7%
Total	3,668	3,585	-28	-59	+23	+85	-105	-83	-2%





