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## 6.0 FirstSchool Facility

In this chapter we present a proposal for indoor and outdoor learning environments, shared spaces, specialized instruction, media center, gym or multi-purpose area, administration and support, family resource suite, health services, lobby and reception, and building and food services.







## SPACE PROGRAM CONSIDERATIONS

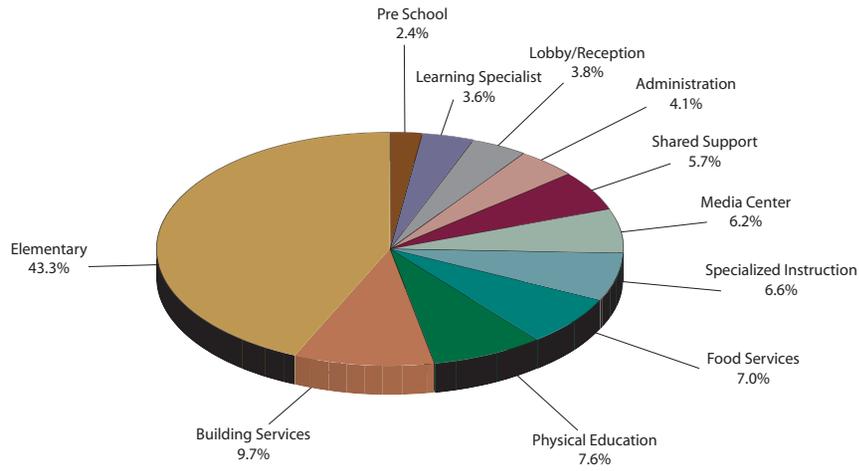
The space program being developed with FirstSchool must take into account many variables. For instance, the school concept developed here is without a specific site. Therefore, assumptions have been made, such as the size and shape of the site; whether it is flat or hilly; a site full of trees or no trees at all; whether the site is a virgin site or if it has been used for other purposes; the location of existing or nearby utilities; direction of the sun and whether there is a dominate north or south exposure or if there are any transportation links close by. Without an existing real site, an assumed site must be used to provide minimal assumptions.

The indoor/outdoor environment is being developed without an existing school in order to demonstrate some ways of implementing FirstSchool principles. This space program may be used to guide and inform the construction of a new school for children three to eight years old or it may be used to support efforts to develop a culture change in schools wherein schools adapt and/or renovate physical spaces to better serve the school staff and the young children and families who attend.

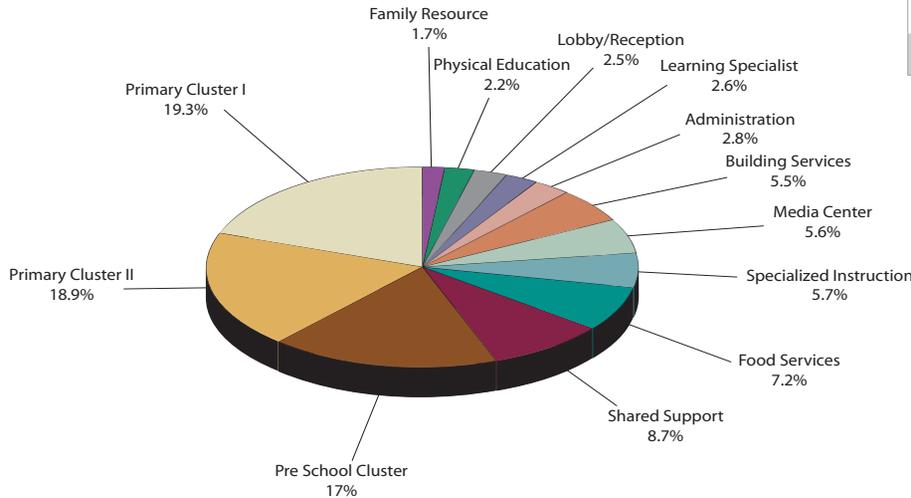
The space program is also being developed within the overall specific space standards and recommendations guideline. At one time the North Carolina Department of Public Instruction (NCDPI) had Facility Standards in place that established minimum construction criterion for individual school districts to adhere to when they constructed new facilities or renovated older ones. Since that time, the State has moved away from the "standards concept" and now has "Facilities Guidelines" in place. While the intent of the Guidelines remains consistent with the previously enacted State Standards, to ensure that school systems provide adequate space for instructional classes and activities, the Guidelines now allow for flexibility and allow for more consideration of local situations, such as availability of land or other limitations that school districts may face. If you are outside this jurisdiction you may have to contact your local agencies for more specific guidelines in your state.

We recognize that the increase of pre-K students will challenge many school districts program models, however, the inclusion of three and four year olds are fundamental to FirstSchool.

Space Program - Interior space requirements (i.e. floor plan layout, square footage, adjacencies) based on programs, objectives, work flow, end user, budget constraints, and growth projections.

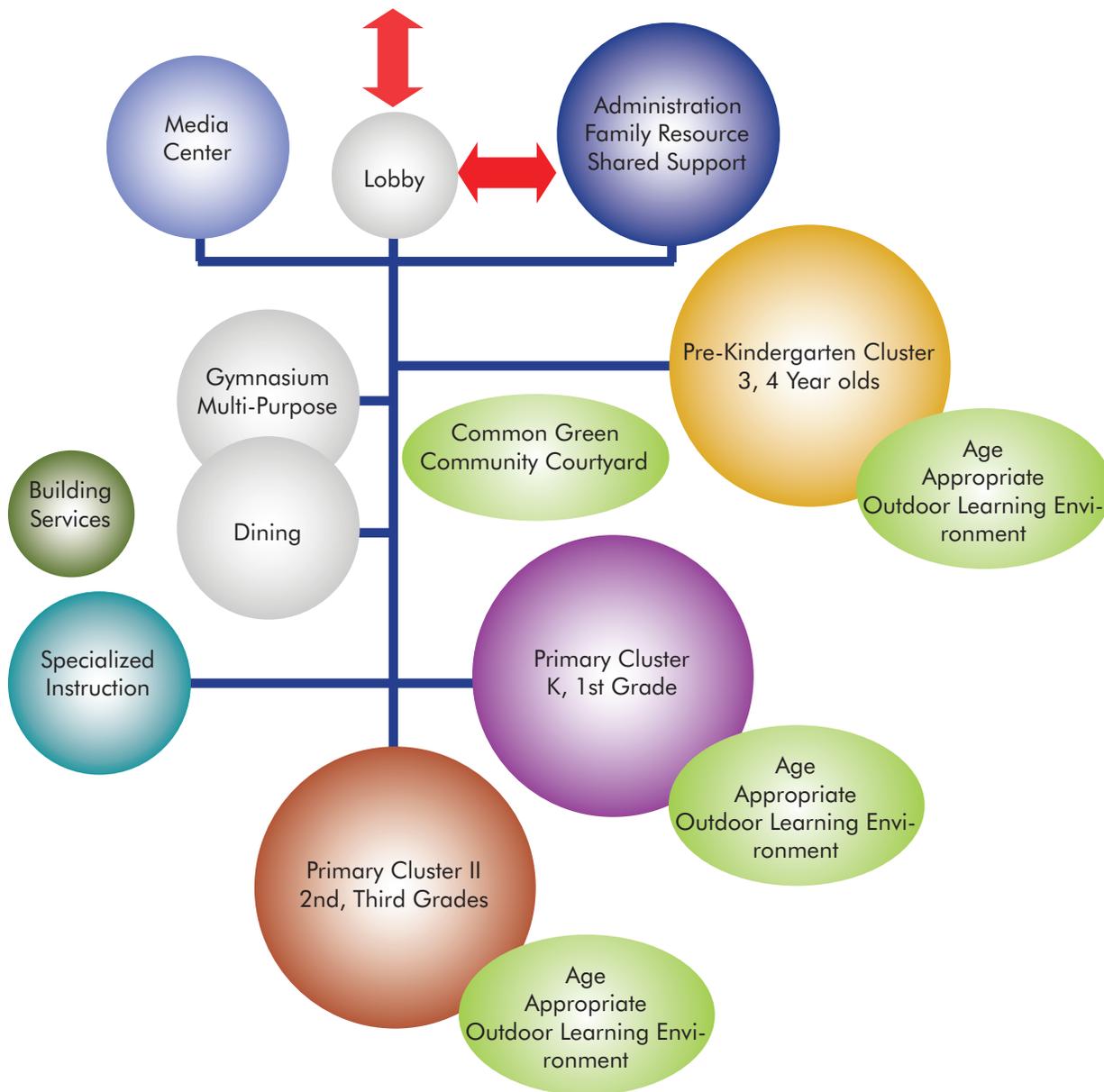


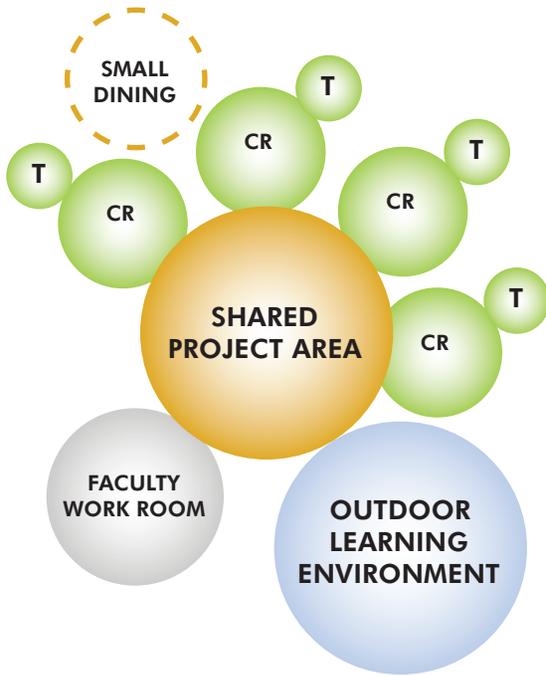
North Carolina guidelines based on 585 students - 158.7 sf/student



FirstSchool program based on 450 students - 159.1 sf/student

Summary of Indoor Spaces	Net Square Feet	% of Total
Pre-K Cluster 3 - 4 Year Olds	9,160	17.3%
Primary Cluster I K - 1st Grade	10,240	19.3%
Primary Cluster II 2nd - 3rd Grade	10,040	18.9%
Specialized Instruction	3,000	5.7%
Media Center	2,950	5.6%
Physical Education	4,600	2.2%
Shared Support	1,200	8.7%
Family Resource Suite	890	1.7%
Learning Specialist	1,400	2.6%
Administration	1,470	2.8%
Building Services	2,930	5.5%
Lobby - Reception	1,300	2.5%
Food Service	3,850	7.2%
<b>Subtotal Square Feet</b>	<b>53,030</b>	
<b>Gross Factor</b>	<b>1.35</b>	
<b>Total Gross Square Feet</b>	<b>71,590</b>	
<b>Gross Square Feet per Student</b>	<b>159.1</b>	





Conceptual Relationships

**GENERAL INSTRUCTIONAL / Pre-K Cluster 3-4 year olds**

- Adjacent to outdoor space
- Shared project space as breakout space for each classroom
- Relieves space pressure from other specialized classroom space
- Small learning communities
- Focal point at end of corridor
- Standardize classrooms for flexible assignment of rooms
- Close proximity to main entrance and lobby area

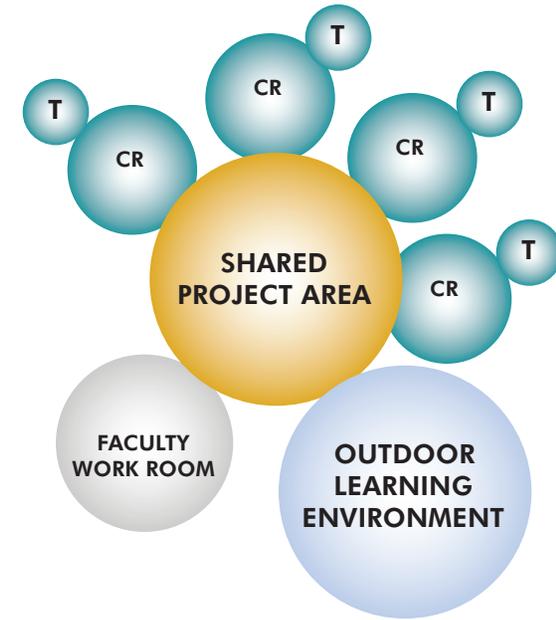
CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL	ROOM CAPACITY	CLUSTER CAPACITY	SF PER STUDENT
<b>PRE-K CLUSTER 3 - 4 YEAR OLDS</b>						
3 Year Old Classroom	900	3	2700	16	48	56
4 Year Old Classroom	900	4	3600	16	64	56
Toilet Room	100	7	700			
Coat/Cubby Area	80	7	560			
Shared Project Area	600	2	1200			
Faculty Workroom/Meeting	200	2	400			
<b>Net Square Footage</b>			<b>9,160</b>		<b>112</b>	



**GENERAL INSTRUCTIONAL / Primary Cluster I Kindergarten & 1st Grade**

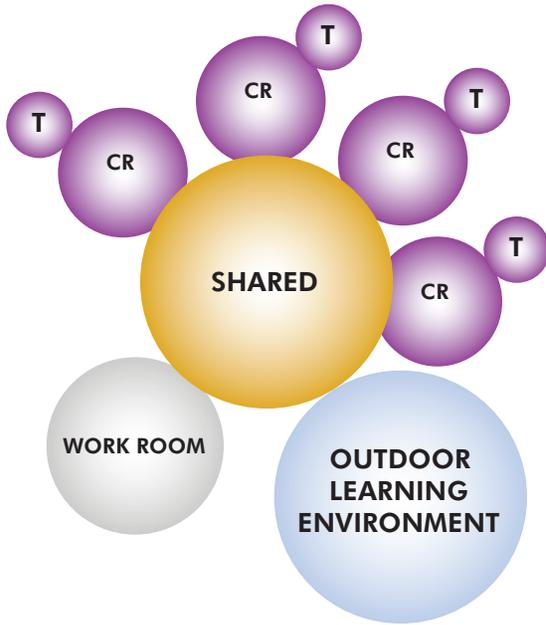
- Adjacent to Outdoor Space
- Shared project area
- Individual classroom toilets
- Destination of arrival
- Standardize classrooms for flexible assignment of rooms

CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL	ROOM CAPACITY	CLUSTER CAPACITY	SF PER STUDENT
<b>PRIMARY CLUSTER I KINDERGARTEN, 1ST GRADES</b>						
Kindergarten Classroom	900	4	3600	21	84	43
1st Grade Classroom	900	4	3600	21	84	43
Toilet Room	100	8	800			
Coat/Cubby Area	80	8	640			
Shared Project Area	600	2	1200			
Faculty Workroom/Meeting	200	2	400			
<b>Net Square Footage</b>			<b>10,240</b>		<b>168</b>	



Conceptual Relationships





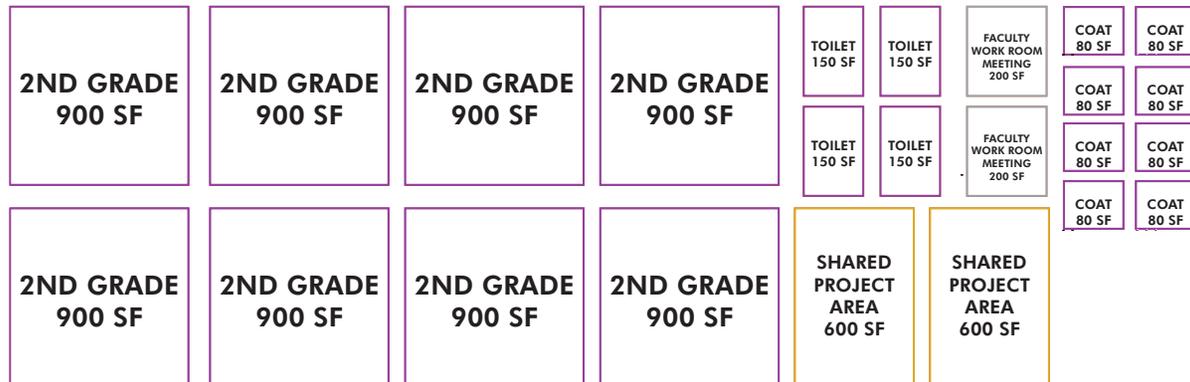
Conceptual Relationships



**GENERAL INSTRUCTIONAL / Primary Cluster II 2nd and Third grades**

- Sense of arrival
- Create small learning communities
- Shared toilet facilities
- Shared project area
- Adjacent to outdoor space

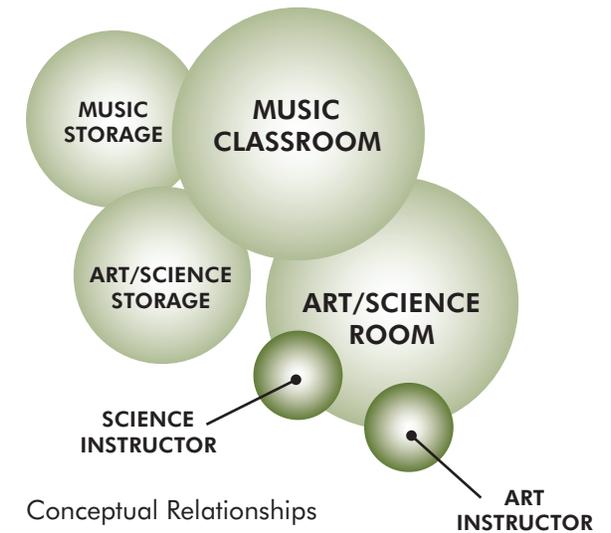
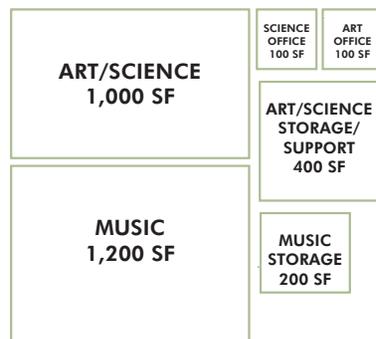
CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL	ROOM CAPACITY	CLUSTER CAPACITY	SF PER STUDENT
<b>PRIMARY CLUSTER II 2ND, 3RD GRADES</b>						
2nd Grade Classroom	900	4	3600	21	84	43
Third Grade Classroom	900	4	3600	21	84	43
Toilet Room	150	4	600			
Coat/Cubby Area	80	8	640			
Shared Project Area	600	2	1200			
Faculty Workroom/Meeting	200	2	400			
<b>Net Square Footage</b>			<b>10,040</b>		<b>168</b>	

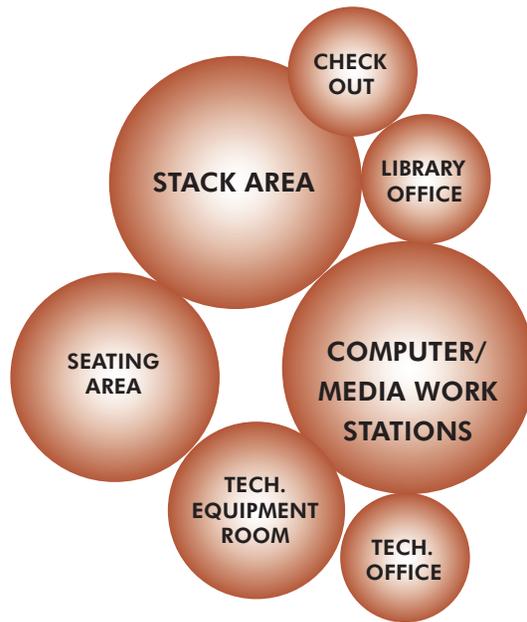


## SPECIALIZED INSTRUCTION

- Art/Science adjacent to outdoor instructional and working space
- Specialized instruction to allow for special projects
- Smaller projects facilitated in classroom clusters to allow more sharing of specialized rooms

CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL
<b>SPECIALIZED INSTRUCTION</b>			
Art/Science Room	1,000	1	1,000
Art/Science Storage/Support	400	1	400
Art Instructor Office	100	1	100
Science Instructor Office	100	1	100
Music Classroom	1,200	1	1,200
Music Instrument Storage	200	1	200
<b>Net Square Footage</b>			<b>3,000</b>





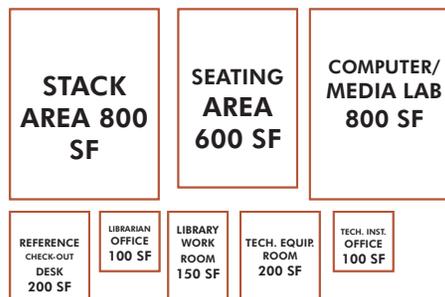
Conceptual Relationships



### MEDIA CENTER

- Prominent school feature
- Located near main entrance
- Hub of technology activity for students, staff, and families
- Group computer instruction area
- Emphasizes a variety of individual and group work settings

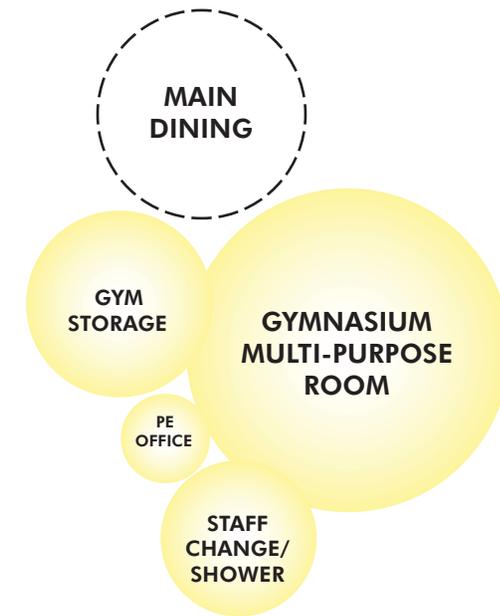
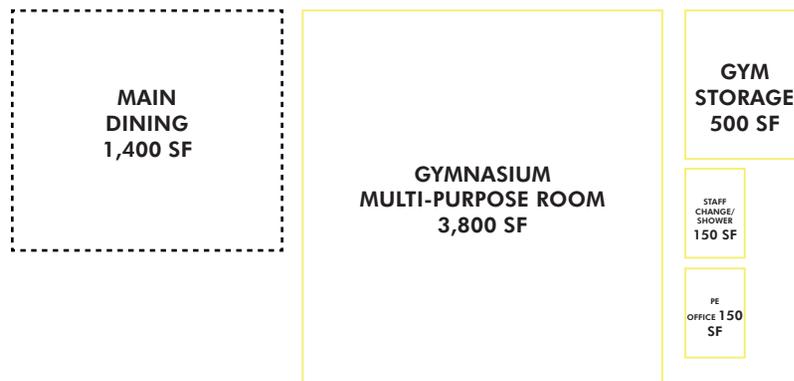
CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL
<b>MEDIA CENTER</b>			
Stack Area	800	1	800
Seating Area	600	1	600
Computer/Media Work Stations	800	1	800
Reference/Check-Out Desk	200	1	200
Librarian Office	100	1	100
Library Workroom	150	1	150
Technology/Equipment Room	200	1	200
Technology Instructor Office	100	1	100
<b>Net Square Footage</b>			<b>2,950</b>



## PHYSICAL EDUCATION

- Down-sized to respond to age appropriate activities
- Adjacent to dining for flexible activities
- Create large multi-use functions with flexible divider between spaces
- Can be used to fit the varied types of small or large instruction or gatherings

CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL
<b>PHYSICAL EDUCATION</b>			
Gym/Multi-Purpose	3,800	1	3,800
Gym Storage	500	1	500
Physical Education Office	150	1	150
Staff Change Shower	150	1	150
<b>Net Square Footage</b>			<b>4,600</b>



Conceptual Relationships



### SHARED SUPPORT

- Staff lounge and resource rooms to be adjacent
- Located adjacent to central administration
- Dedicated space and resource support areas for staff and families
- Location for After-Hours school programs
- Health services to be near administrative services

CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL
<b>SHARED SUPPORT</b>			
Staff Lounge/Break Room	400	1	400
Staff Toilets	50	2	100
Staff Resource/Book Room	200	1	200
Health Service Suite	400	1	400
After School Storage	100	1	100
Net Square Footage			1,200



## FAMILY RESOURCE SUITE

- Located near school entry and central administration
- Critical commitment to offer dedicated space to families
- Promotes access to school for interaction with staff, students, and their families
- Spaces provide warm comfortable residential settings
- Specialized family counseling and support

CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL
<b>FAMILY RESOURCE SUITE</b>			
Family Living Room	300	1	300
Kitchen/Laundry	100	1	100
Small Conference/Tutorial Room	120	1	120
Family Specialist Office	120	1	120
Counselor Office	120	1	120
Family Rest Room	60	1	60
General Storage Room	50	1	50
Coat Closet	20	1	20
<b>Net Square Footage</b>			<b>890</b>



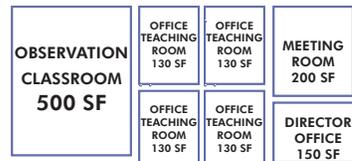
Conceptual Relationships



### LEARNING SPECIALISTS

- Offices sized for one-on-one instruction
- Space will vary widely depending on district standards or needs
- Classroom should have one-way observation
- Audio to remote areas

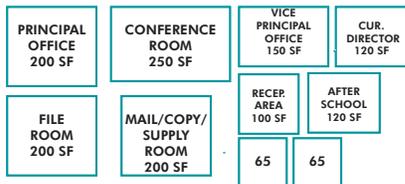
CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL
<b>LEARNING SPECIALIST</b>			
Observation Classroom	500	1	500
Meeting/Storage Room	200	1	200
Director Office	150	1	150
Office/Teaching Room	130	4	520
Net Square Footage			<b>1,400</b>



## ADMINISTRATION

- Located near entry with direct access from main lobby
- Visibility from reception/administration support to main lobby
- Conference room accessible from administration area and general corridor for shared use
- Mail/copy/supply room convenient to faculty break and support area

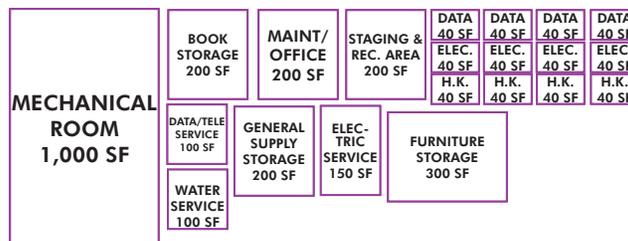
CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL
<b>ADMINISTRATION</b>			
Principal Office	200	1	200
Vice Principal Office	150	1	150
Administrative Support	65	2	130
Reception Area	100	1	100
Conference Room	250	1	250
Curriculum Director	120	1	120
After School Program Office	120	1	120
File Room	200	1	200
Mail/Copy/Supply Room	200	1	200
<b>Net Square Footage</b>			<b>1,470</b>



## BUILDING SERVICES

- Consider fresh air intake and separation from building exhaust
- Locate near center of building complex or campus
- Provide screened vehicular access to service and delivery
- Locate one data/telecom, electric, and housekeeping closet in each cluster
- Mechanical program space will vary widely depending on specific systems selected
- Review mechanical systems carefully with the engineers to determine an appropriate space allocation

CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL
<b>BUILDING SERVICES</b>			
Maintenance Shop/Office	200	1	200
Staging and Receiving Areas	200	1	200
Furniture Storage	300	1	300
Book Storage	200	1	200
General Supply Storage	200	1	200
Mechanical Room	1,000	1	1,000
Water Service Room	100	1	100
Electric Service Room	150	1	150
Data/Telecom Service Room	100	1	100
Electric Closet	40	4	160
Data/Telecom Closet	40	4	160
Housekeeping Closet	40	4	160
<b>Total Square Footage</b>			<b>2,930</b>

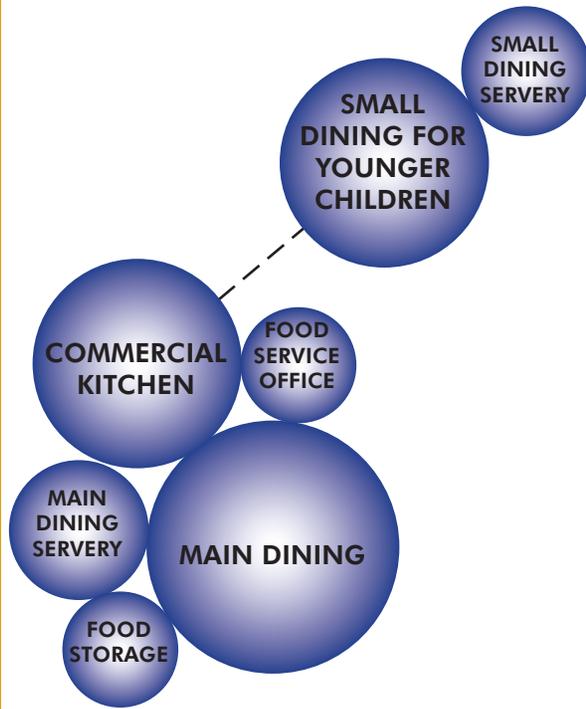


## LOBBY AND RECEPTION

- Open and inviting space with direct view to landscape of outdoor courtyard
- Reception/greeting desk connected to administration suite
- Adjacent to media center and administration
- Convey a sense of calming transition from home life to school
- Provide display area for student and community projects

CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL
<b>LOBBY RECEPTION</b>			
Reception/Greeting Desk	200	1	200
Public Toilet Room	300	2	600
Lobby/Entrance	500	1	500
Net Square Footage			<b>1,300</b>

<b>PUBLIC TOILET 300 SF</b>	<b>PUBLIC TOILET 300 SF</b>	<b>LOBBY/ ENTRANCE 500 SF</b>	<b>RECEPTION DESK 200 SF</b>
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Conceptual Food Service Relationships

**Food Service**

- Dining facilities sized for fewer lunch periods and group seating of 6-8 students at round tables (15 sf/student)
- Assume four (4) lunch seatings of 90 students in main dining room
- Assume four (4) lunch seatings of 35 students in small dining room
- Food service areas should be designed for several options and at a minimum provisions made for fresh fruit and snack bar
- Small dining room and servery to be located in the Pre-School cluster area
- Provisions should be made for transport of bulk food from the main kitchen

CATEGORY/ROOM/SPACE	AREA	QTY	TOTAL	SEATING CAPACITY
<b>FOOD SERVICE</b>				
Main Dining/Common Room	1,400	1	1,400	90
Main Dining Servery	600	1	600	
Small Dining for Younger Children	500	1	500	35
Small Dining Servery	150	1	150	
Commercial Kitchen	800	1	800	
Food Storage	300	1	300	
Food Service Office	100	1	100	
Net Square Footage			3,850	

