2024 Exhibition of School Planning and Architecture Northeast Region

Maria Weston Chapman Middle School Weymouth Public Schools

Weymouth, MA

Maria Weston Chapman Middle School





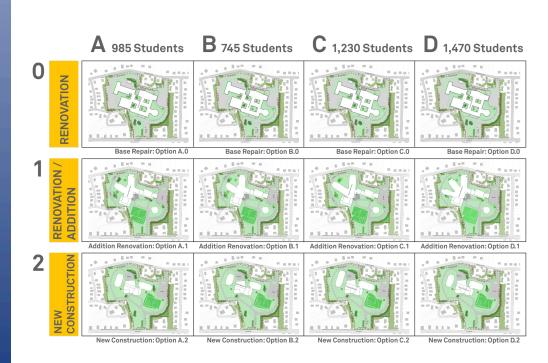
When the Town of Weymouth decided to build the largest middle school in Massachusetts, student equity, community benefits, and costeffectiveness were key drivers. Located on the South Shore of Massachusetts, just 15 miles from Boston along the MBTA Red Line, Weymouth is a coastal community with a prominent working-class population. Weymouth Public Schools currently serves 5,641 students in grades PK-12. At the project's inception, there were nine elementary schools, two middle schools, and one high school.

Built in 1961, the existing Chapman Middle School faced an array of physical and educational challenges, including structural deficiencies, inefficient and inoperable systems, and spaces that did not meet teaching and learning needs. The need for a new middle school left the community divided over whether to house all middle school students in one location or to remain with a two-middle school model.

The design team examined four enrollment configurations for both a single- and multimiddle school model, reviewing the two existing schools to determine their capacity and potential for addition/renovation, as well as cost implications and the impact on transportation and redistricting.

Ultimately, a single, new construction 6-8 middle school proved the most equitable and beneficial to the community, both educationally and fiscally.





Study options matrix

The decision to consolidate Weymouth's middle schools meant the new Chapman Middle School would be the largest in the Commonwealth. This proposition was initially met with concerns about size and scale, especially at the middle school level.

Of the 1,470-student population, 24.4% have a disability, 57% have high needs, and 44.8% come from low-income families, so it was imperative that the new facility be supportive and accommodating of Weymouth students' specific needs.

The design team led an open, transparent, and inclusive process involving more than 50 public opportunities for community input to ensure they understood the community's needs and values and that their voices were represented in the final design.

Community-identified challenges:

Budget, consensus across the community, accommodating traditional and non-traditional learning spaces, size

Community-identified opportunities: Building spirit, embracing diversity, increasing the number of electives, sustainability

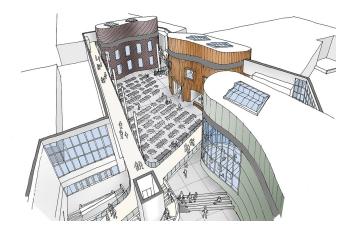


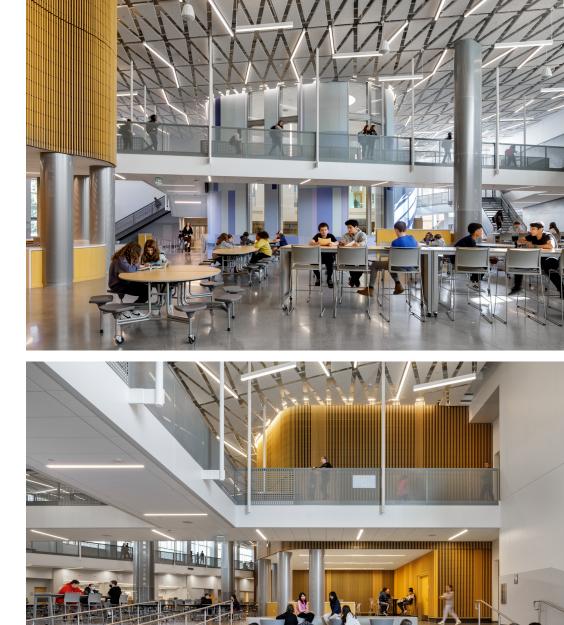


Two driving project goals emerged from these efforts: **foster student well-being** and **create a facility for the entire community**. The design responds to these goals and concerns throughout.

The heart of the school is the Town Square, a light-filled, double-height space that serves as a dining commons and gathering area during the school day and can be reconfigured to host meetings, presentations, and more after hours.

A community wellness suite with a separate community entrance and a gymnasium available for town sporting events also accommodate public use.





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THEATER ARTS

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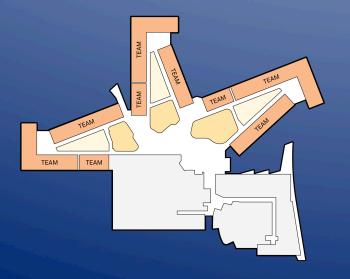
At the time of the project, theater arts programs throughout the district were already popular and growing. The town's high school theater program was known for putting on quality productions and, while the existing middle schools had a theater arts curriculum and after-school clubs, they were hampered by their facilities.

In the new school, a state-of-the-art, 850seat auditorium serves the middle school's active drama program as well as high school and community theater groups.

Social-emotional wellness

In response to concerns about size, educational planning and academic teaming spaces were structured to form concentric rings of support around each student. The space organization strategy progressed from the whole school to grade levels, and then to smaller academic neighborhoods.

Three academic wings radiate off the Town Square, separating students by grade. To further break down the scale of the large school, neighborhoods within each academic wing create small learning communities that provide a "home base" for students and ensure their needs are met with expanded resources, focused attention, and supervision.



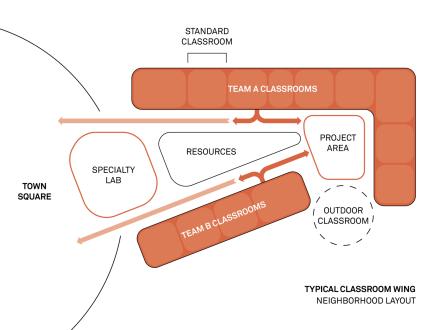


Social-emotional wellness

Teaching teams are the central planning units that structure each neighborhood. A team is comprised of educators—two for a 6th-grade team and five for a 7thor 8th-grade team—as well as an embedded academic support teacher and classroom. The neighborhoods provide a range of space types, from breakout areas to flexible, open collaboration zones, to facilitate group work and self-directed learning.

Special education (including full-immersion programs) is integrated within the teams, promoting equity and belonging for all students.







Varied learning environments



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Varied learning environments

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Varied learning environments

Hands-on, career-based education

As a feeder for Weymouth High School and its robust career technical education (CTE) programs, the new grade 6-8 school's curriculum and layout are centered around its unique "exploratories"—elective tracks that focus on modern, STEAM-driven paths in CTE, ranging from robotics and fabrication to culinary arts and broadcast media.





Hands-on, career-based education

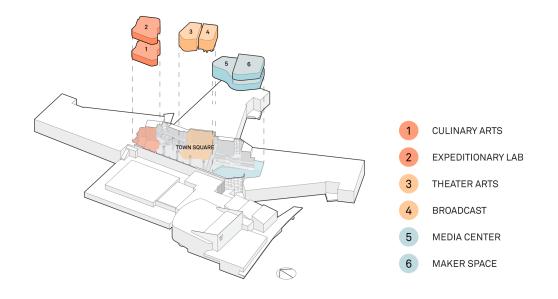
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Physical Environment

Hands-on, career-based education

These programs are housed within three distinct tower-like, top-lit structures—or pods—that utilize their unique and expressive architectural forms to represent the flexible and collaborative nature of the interior spaces. Positioned at the entrance to each of the three academic wings extending off the cafeteria, the exploratory labs shape the organic layout of the Town Square.





Physical Environment Natural light

Daylit spaces are an essential component of the Chapman Middle School design, from clerestories in the art classrooms to curtain walls between the outdoor classroom and project area in each neighborhood collaborative zone.

As important as natural light is to productivity and well-being, the design team recognized that glare on teaching surfaces can hinder learning. To counter this, exterior windows have fixed, perforated sunscreens tailored to each solar orientation.





Physical Environment Environmental graphics

Vibrant environmental graphics in the academic wings reinforce concepts of diversity, empathy, and inclusion. Paired with a distinct color scheme for each neighborhood, these graphics assist with wayfinding and promote a sense of belonging.



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Physical Environment

Site elements

The Chapman Middle School site was developed around whole-child needs and community access, with a half-mile walking circuit connecting age-appropriate play areas and natural site elements that support the physical education curriculum.

Along the fitness loop are three exercise stations and two structured fitness areas, one that features a multi-game court and the second created according to Universal Design principles.







Planning Process

Interactive visioning

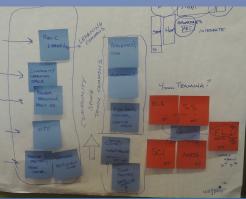
Nearly 100 meetings with stakeholders took place before the final design was complete, including 30 building committee meetings, six public forums, three project visioning sessions, two sustainability workshops, an online survey, and meetings with parents, teachers, and public safety officials.

During these sessions, participants worked in teams to create layouts to help inform the organizational strategy of the new school. This exercise sparked key ideas for the project, including:

- The school as a community resource
- A layout designed for team teaching
- Clear separation between public and private spaces

Stakeholder planning diagram examples from the visioning sessions are included to the right.











Planning Process

Revolutions in learning

The Chapman School planning process incited a shift in Weymouth Middle School education. Teachers, faculty, and students recognized the need to leave behind a siloed, lecture-based curriculum and embrace a more collaborative, process-based education that supports the whole student.

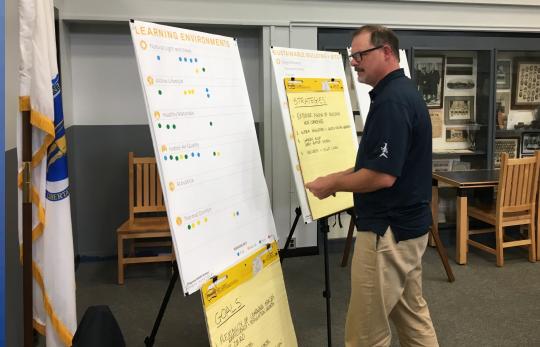
The team collaborated with these groups through various avenues, from one-on-one meetings to large-group interactive work sessions, to determine how the facility could realize the educational goals.

"The architects have done an amazing job listening to what the essence of a middle school is and transforming it into these neighborhood areas throughout the school. This breaks down an extremely large school into localized learning communities where students feel like they are in a very small school within the larger school."

Matthew Meehan

Former Principal, Chapman Middle School









Exhibition of School Planning and Architecture Project Data

Submitting Firm :	HMFH Architects
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Exhibition of School Planning and Architecture Project Details

Project Name	Maria Weston Chapman Middle School
City	Weymouth
State	Massachusetts
District Name	Weymouth Public Schools
Supt/President	Robert Wargo
Occupancy Date	09/01/2022
Grades Housed	6-8
Capacity (students)	1,470
Site Size (acres)	9.2 acres
Gross Area (sq. ft.)	252,000 sf
Per Occupant(pupil)	171.5 sf/student
Gross/net please indicate	gross
Design and Build?	N/A
If yes, Total Cost:	N/A
Includes:	N/A
Project Costs	
lf no,	
Site Development:	\$19,999,977
Building Construction:	\$128,585,641
Fixed Equipment:	\$4,013,884
Other:	
Total:	\$164,235,130