



What's Old is New Again: Strengthening Community Through the K-8 School Model

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HKS

Introduction | **Continuing Education**

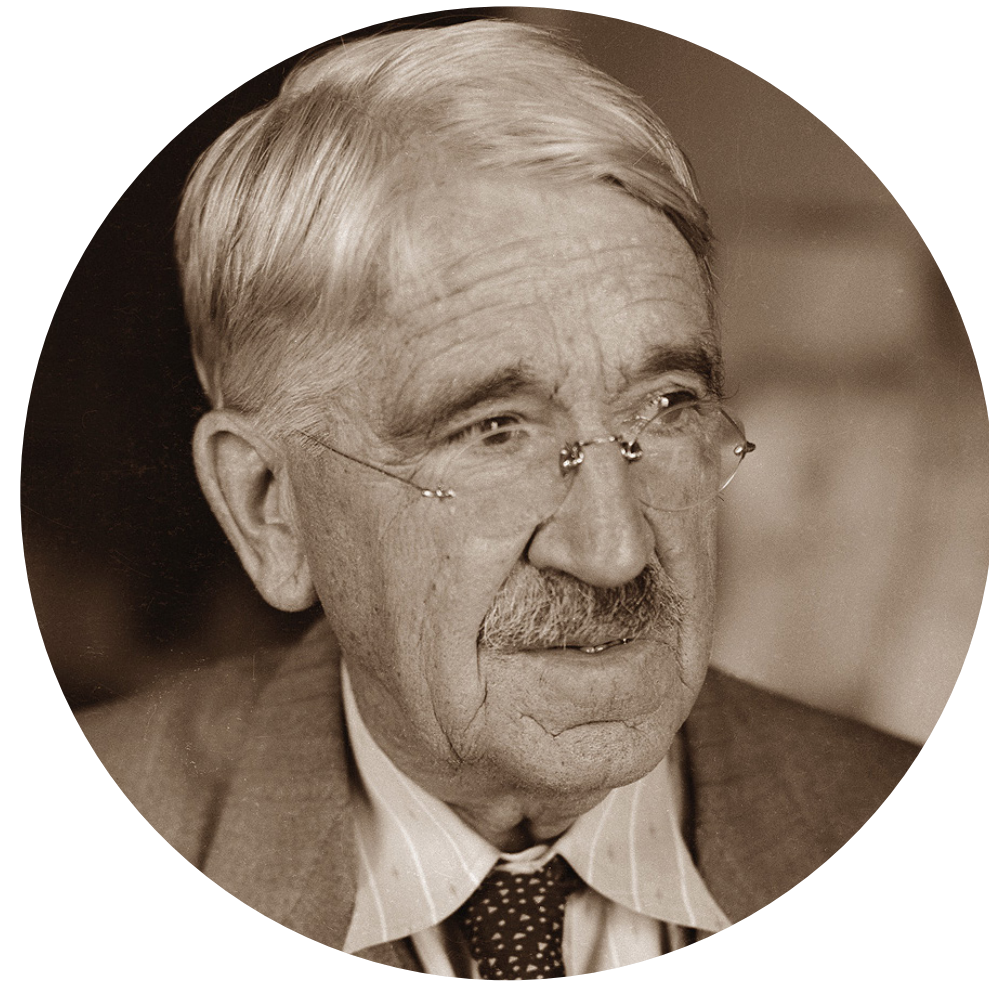


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Introduction | Learning Objectives



Understand how the past is shaping the future



Provide context for emerging K12 challenges



Demonstrate approach and strategies



Present how to track for impact through a research-based tools

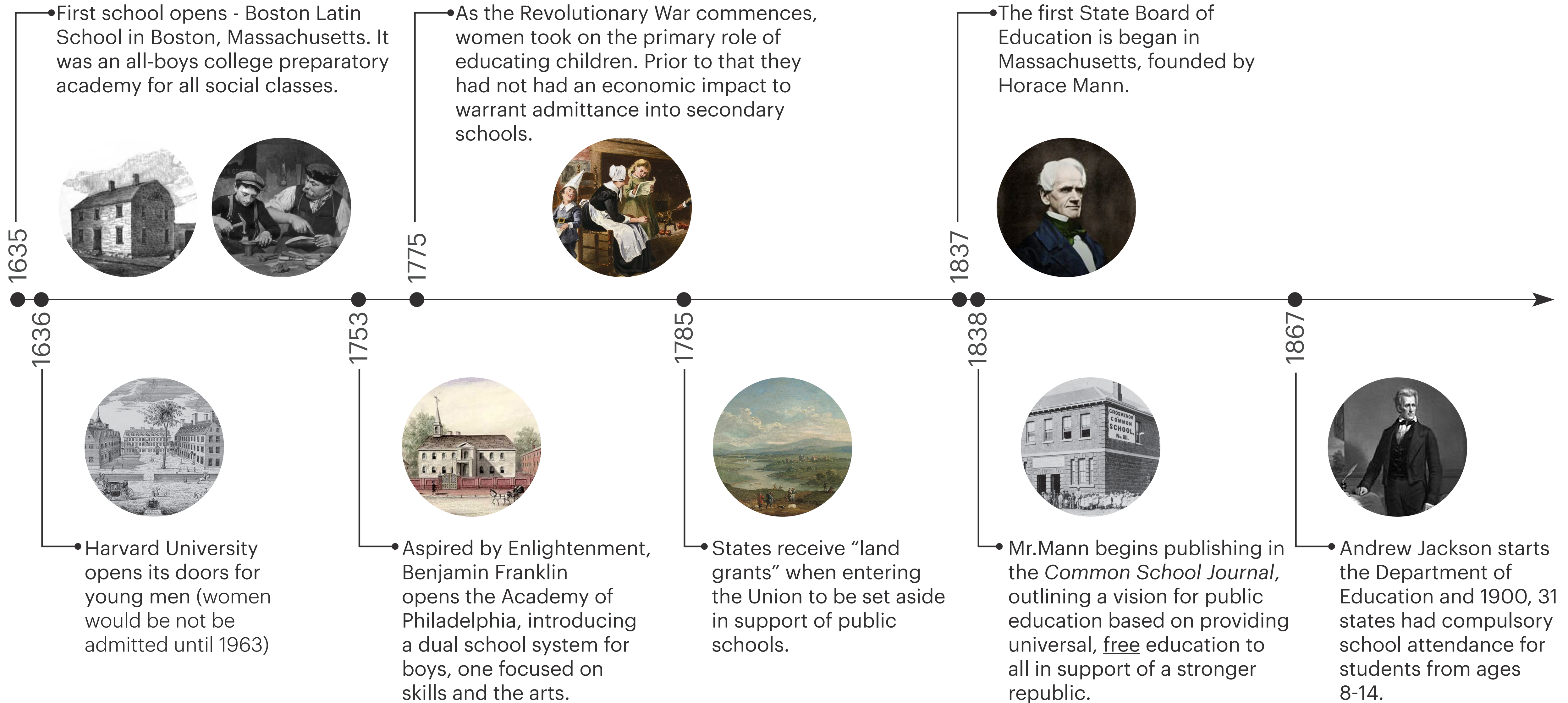


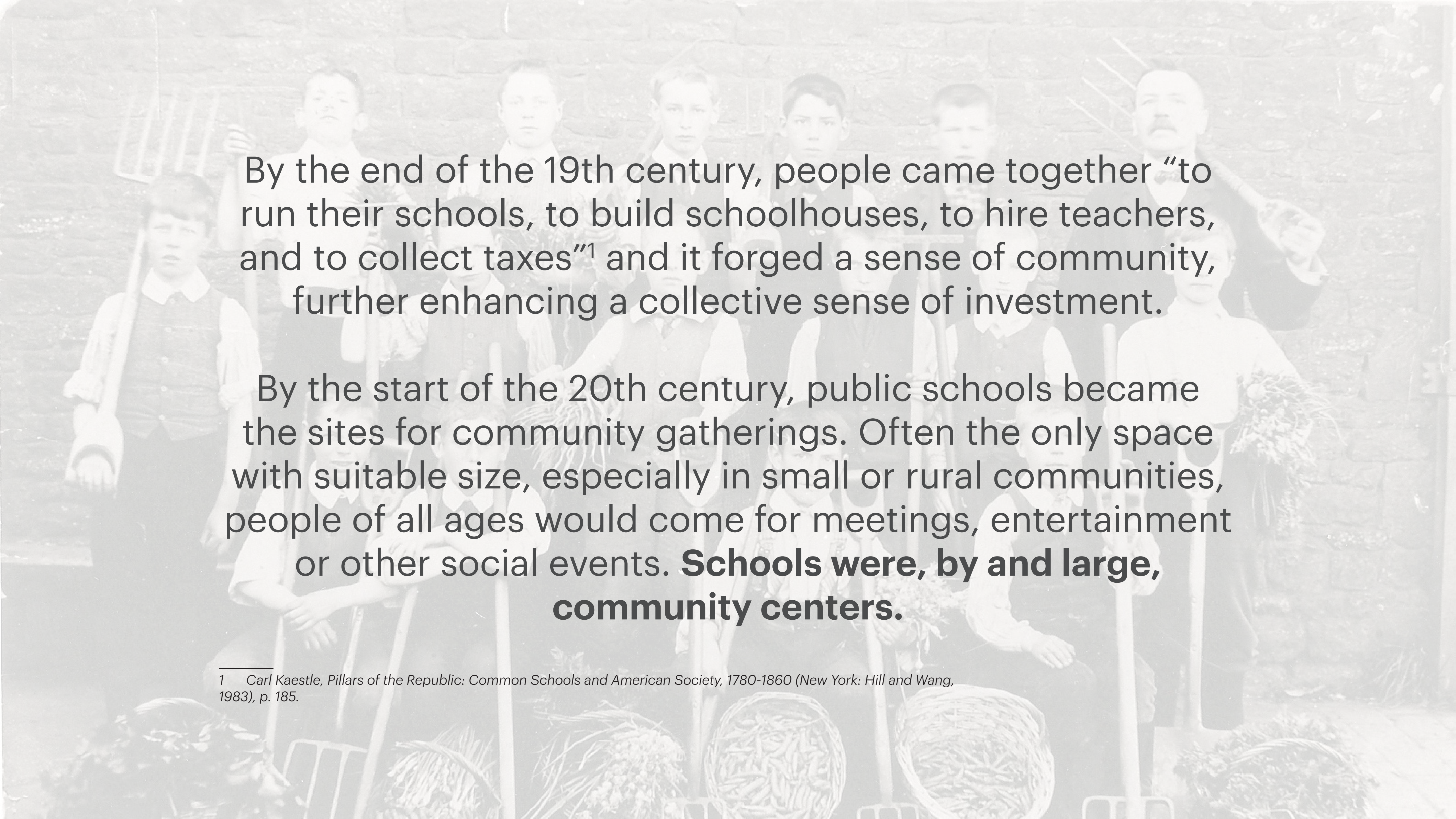
BACK TO THE FUTURE

Where did we start?



Understand | A Brief History



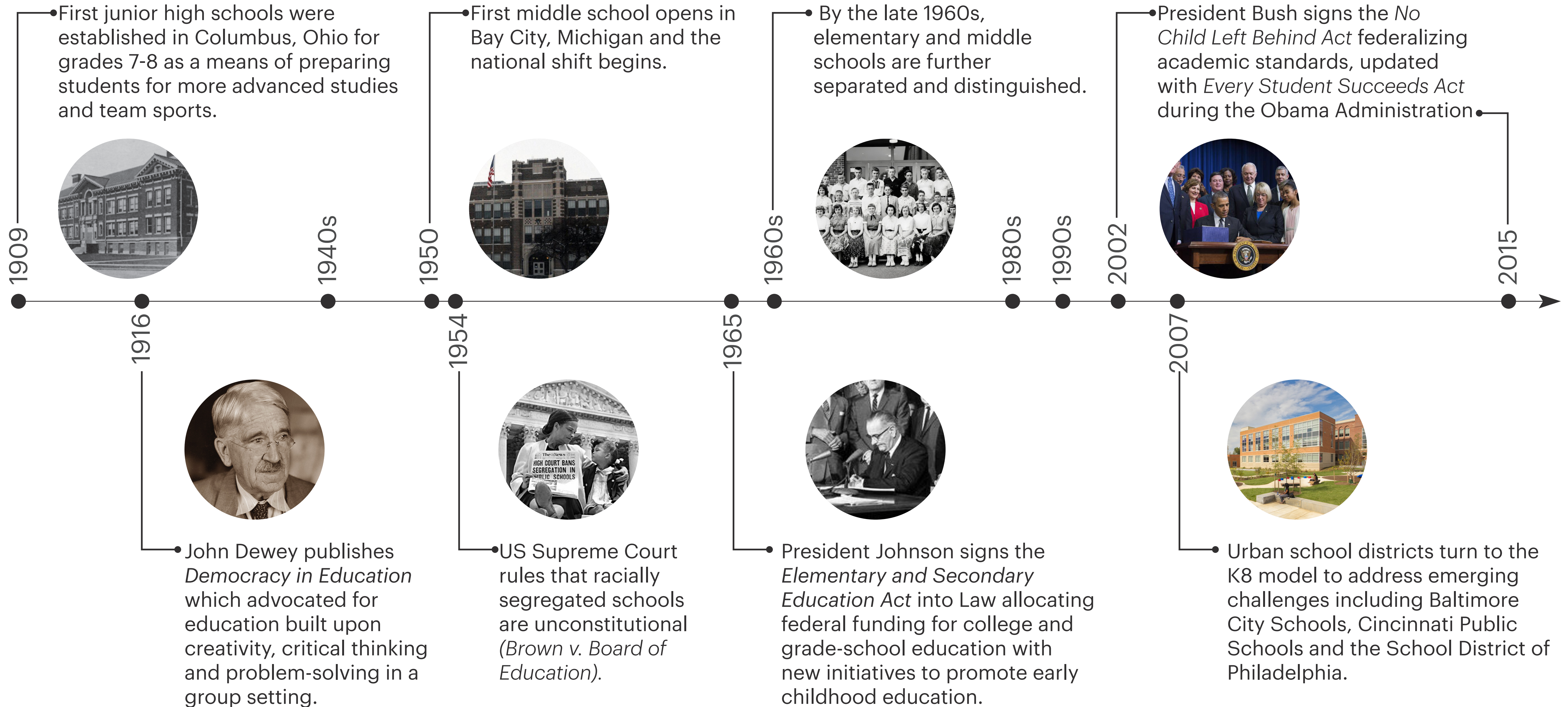


By the end of the 19th century, people came together “to run their schools, to build schoolhouses, to hire teachers, and to collect taxes”¹ and it forged a sense of community, further enhancing a collective sense of investment.

By the start of the 20th century, public schools became the sites for community gatherings. Often the only space with suitable size, especially in small or rural communities, people of all ages would come for meetings, entertainment or other social events. **Schools were, by and large, community centers.**

¹ Carl Kaestle, *Pillars of the Republic: Common Schools and American Society, 1780-1860* (New York: Hill and Wang, 1983), p. 185.

Understand | ... of the Evolution of Educational Model





By the end of the 20th century, federal funding has been minimized, shifting the onerous to the states. Federal funding is determined largely by academic performance.

“At the same time federal funds were diminishing, federal reports were issued criticizing the low academic achievement of students in the public schools.”¹

By the start of the 21st century, schools are beginning to experiment with scheduling, grouping, calendars, length of school day, and grade configurations. States and districts also start considering **how the educational setting is impacted by grade span configuration, specifically declining performance in middle schools.**

¹ Mary Jane Dove, *Relationship Between Grade Span Configuration and Academic Achievement*, 2010, p.274.



BACK TO THE FUTURE

Where are we today?



Current State | Today's Statistics

- Over 49.2 million students enrolled in the public school system, with an average school size of 528 students
- Despite the enrollment decline after COVID, enrollment has steadily increased at a rate of 23.9% since the 1980s
- US allocates 11.6% of public funds to public education, compared to the international benchmark of 15%
- The US ranks 12th in elementary funding based on GDP
- US allocates \$640B to public schools, averaging \$12,624 per student, but still a majority of spending comes from the state and local governments, accounting for more than half what is spent per student
- New York, Washington DC, Connecticut, New Jersey and Vermont have the highest public spend per student





Current State | Florida's Numbers*

*As of October 2023

- 3.38 million students enrolled in the K-12 schools, 86% in public schools and 14% in private
- There are over 4,200 public schools operating across the State with enrollment up almost 53% since 1990
- Of those, 656 are estimated to be charter schools, accounting for 10% of the enrollment (282,500 students)
- On average, more than 23% of the state's budget is spent on public education, 2nd only to Medicaid
- Florida's teacher pay ranked 48th in the nation (when adjusted for cost of living)
- 30 reported mass shootings in schools in 2023, down from 31 in 2021 & 2022, and 35 in 2020
- Rank in the top 10 for academic performance based on a number of factors

Current State | **Emerging Challenges**



Shifting demographics, growing enrollment



Rising costs of construction and operations



4,500 vacant teacher positions in Florida; 55,000 nationwide



Declining mental health and well-being for students and educators



BACK TO THE FUTURE

Why the K-8 re-emerged?



Context | K-8 Overview

- K-8 model has always been a prevalent school community size for private/independent schools
- Re-emergence began in the Northeast as a response to urban challenges, has slowly made its way into the Southeast
- First Florida projects were largely charter schools to capture the enrollment, Miami-Dade County currently has over (50) K-8 Centers
- Helped to support nationwide initiatives to improve enrollment in Pre-K programs to tackle literacy concerns
- Many emerged in collaboration with non-profits (Boys & Girl's Club, YMCA, health centers, adult education programs)



Academic Center for Excellence, Orange County Public Schools

Context | Meeting the Challenge



Funding shortfalls
and failing
infrastructure



Student
performance and
discipline



Parental/guardian
investment



Hardships with middle
school transitions

Context | K-8 Considerations

Advantages

- Increased resource sharing (human and physical)
- More continuity across the learning continuum
- Higher quality relationships
- Discipline and accountability
- Curricular opportunities expanded

Challenges

- Requires intentional safety and security design measures
- Reduced athletic amenities than traditional middle school
- Purposeful professional development and diverse staff skilset is needed
- Intentionality to scale
- Upfront funding / budget management



Context | Leadership Insight

Based on your diverse experience, what are the cultural differences between a K-8 as compared to either an elementary or middle school



Mr. Anthony Losada
Principal, Johnson K-8
Manatee County

“The fears associated with transition to middle school as seen in a traditional model really do not pertain to the K8 because Day 1 of middle school is not really Day 1, its Day 1,260. A K8 model creates a sense of belonging and allows for vertical planning and the ability to build lasting relationships between faculty, students, families and the broader community.”

Context | Curriculum Insight

Does the K-8 model impact how your team develops curriculum and how does the built environment support your emerging initiatives



Ms. Kelli Kennedy
Asst Director, CTE
Manatee County

“The K-8 promotes continuity of curriculum so that students can seamlessly build on previous knowledge. It is also great that younger students get to see older students engaging in exciting courses like Ag or Engineering which is not otherwise possible. This gets them exposed to those middle school options earlier and they have increased confidence to try new things because they have seen it modeled by students they admire or respect.”

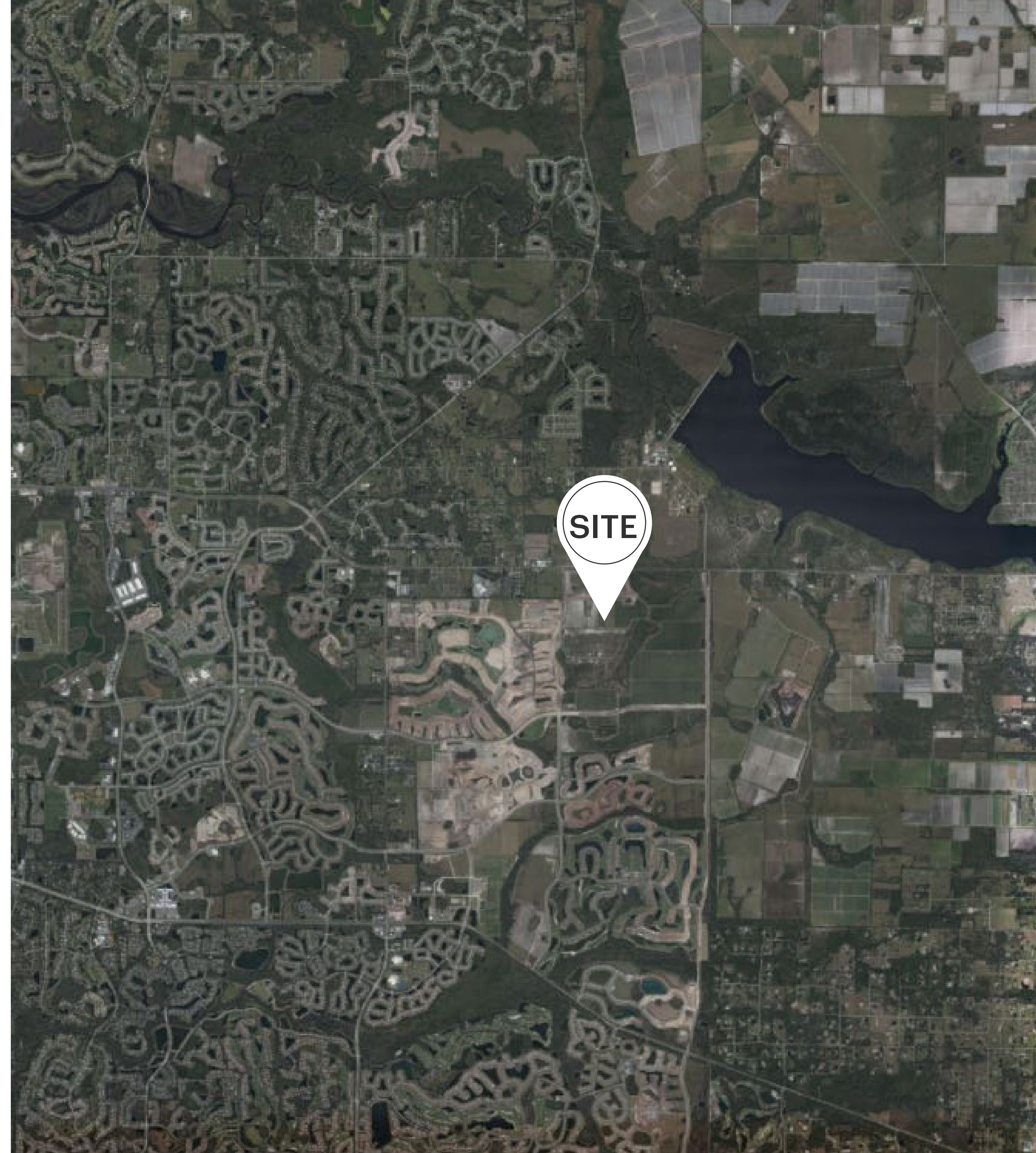
CASE STUDY

MANATEE COUNTY K-8



Case Study | Project Brief

- Pre-K through 8th grade
- 1,692 Student Stations, 1,523 student capacity (90% for K-8) with a 9xx elementary school and 8xx for middle school
- All classrooms required to be first floor with the exception of 4th and 5th grades
- Ag Barn and Greenhouse to support Ag Technology Program
- STEAM Lab for Elementary School
- +/- 40 acres in historically rural area of the county experiencing rapid development/growth
- Addressing population growth and relief for over-capacity schools, potential re-zoning



Case Study | **Guiding Principles**



Build Community

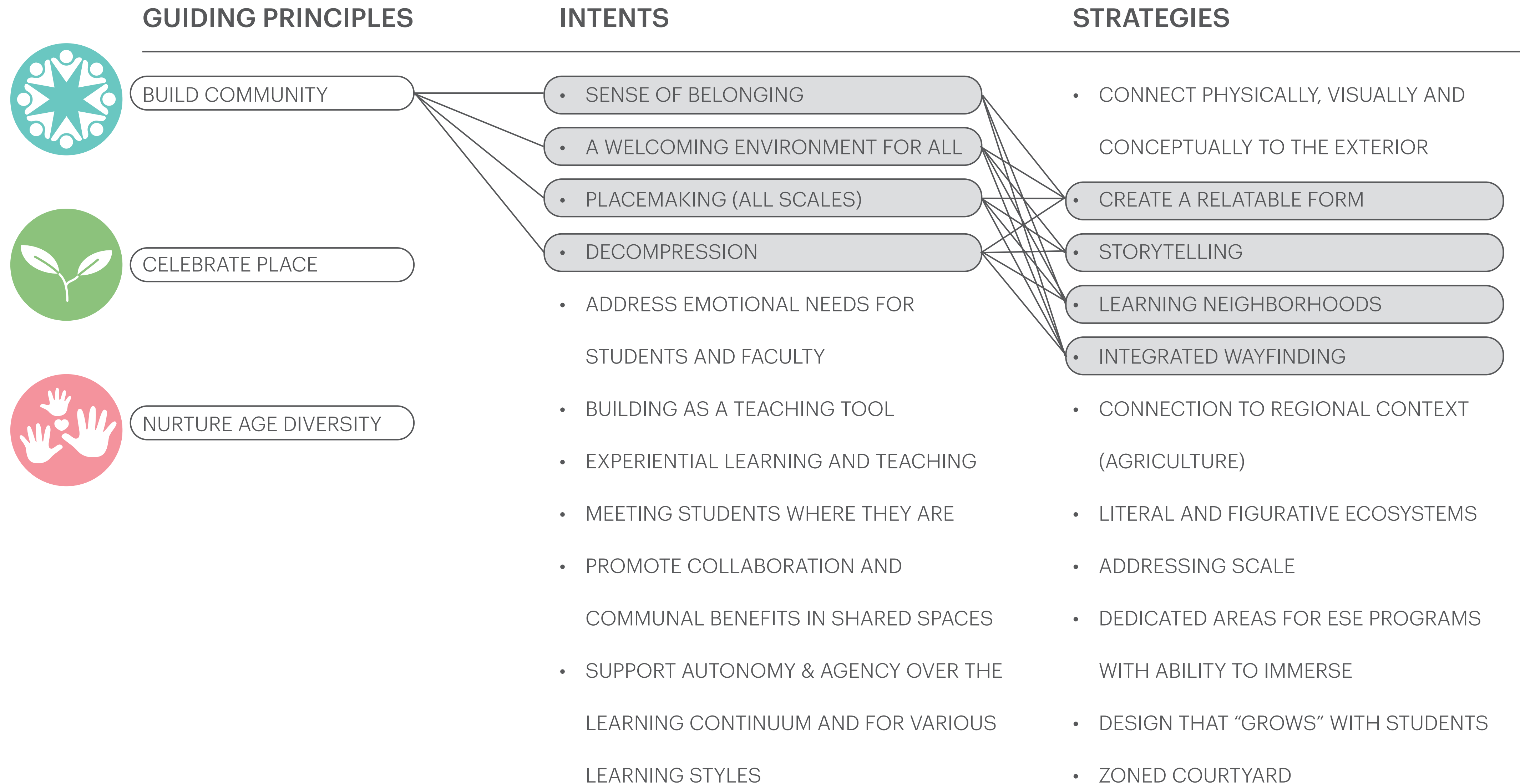


Celebrate Place

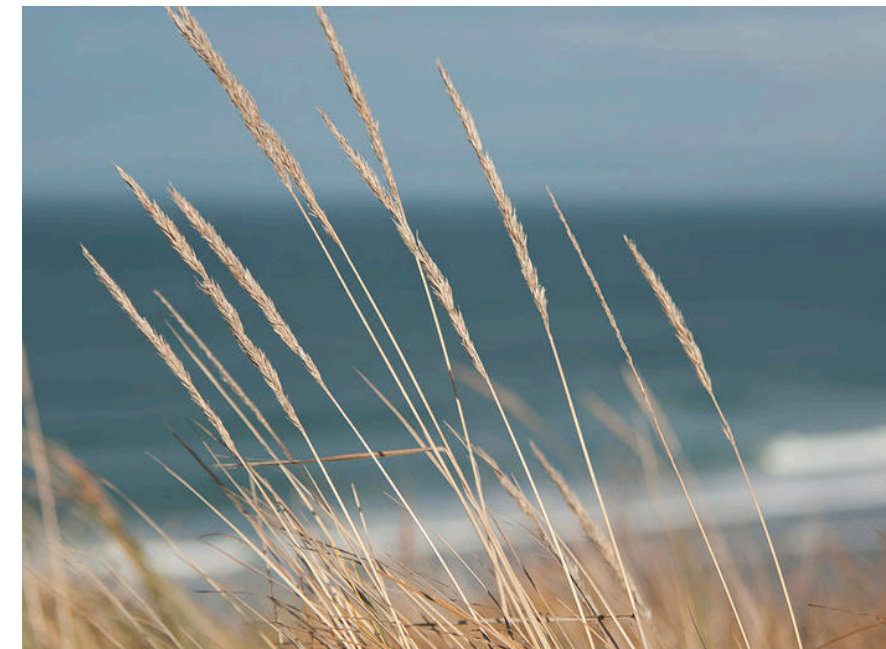
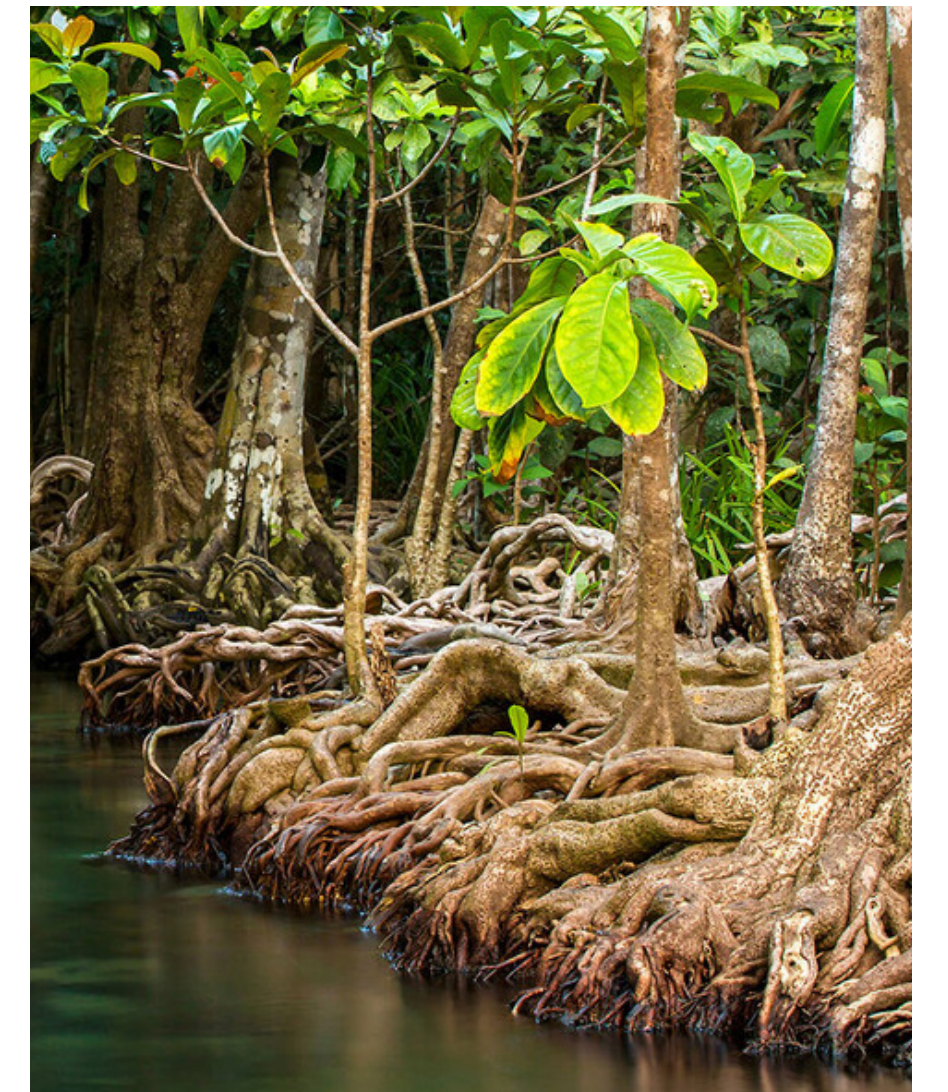


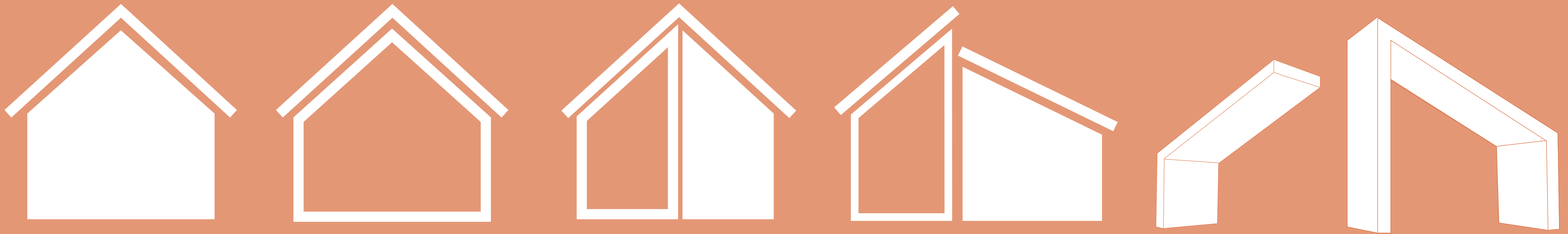
Nurture Age Diversity

Case Study | Design to Outcome



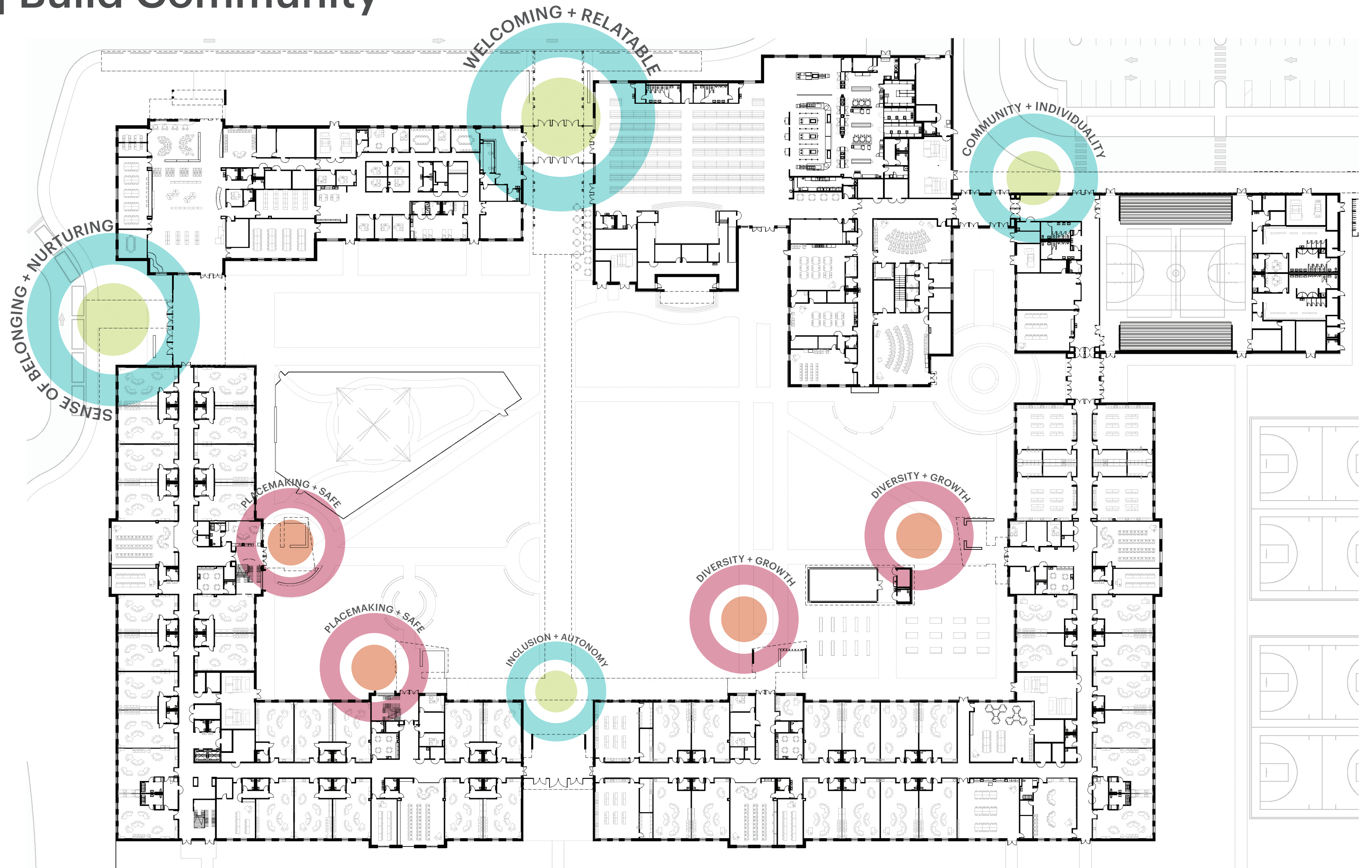
Case Study | Nature + Nurture





HOME.

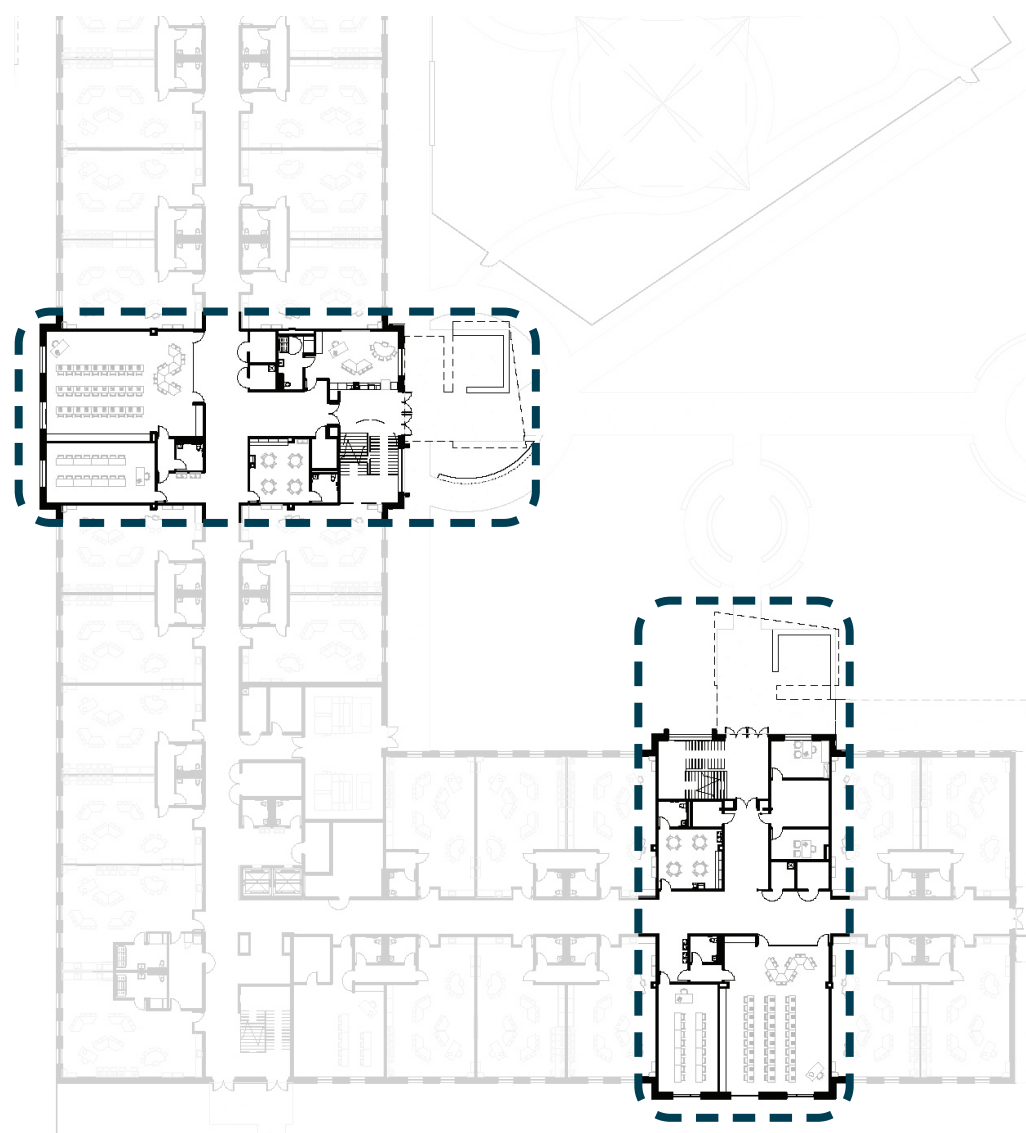
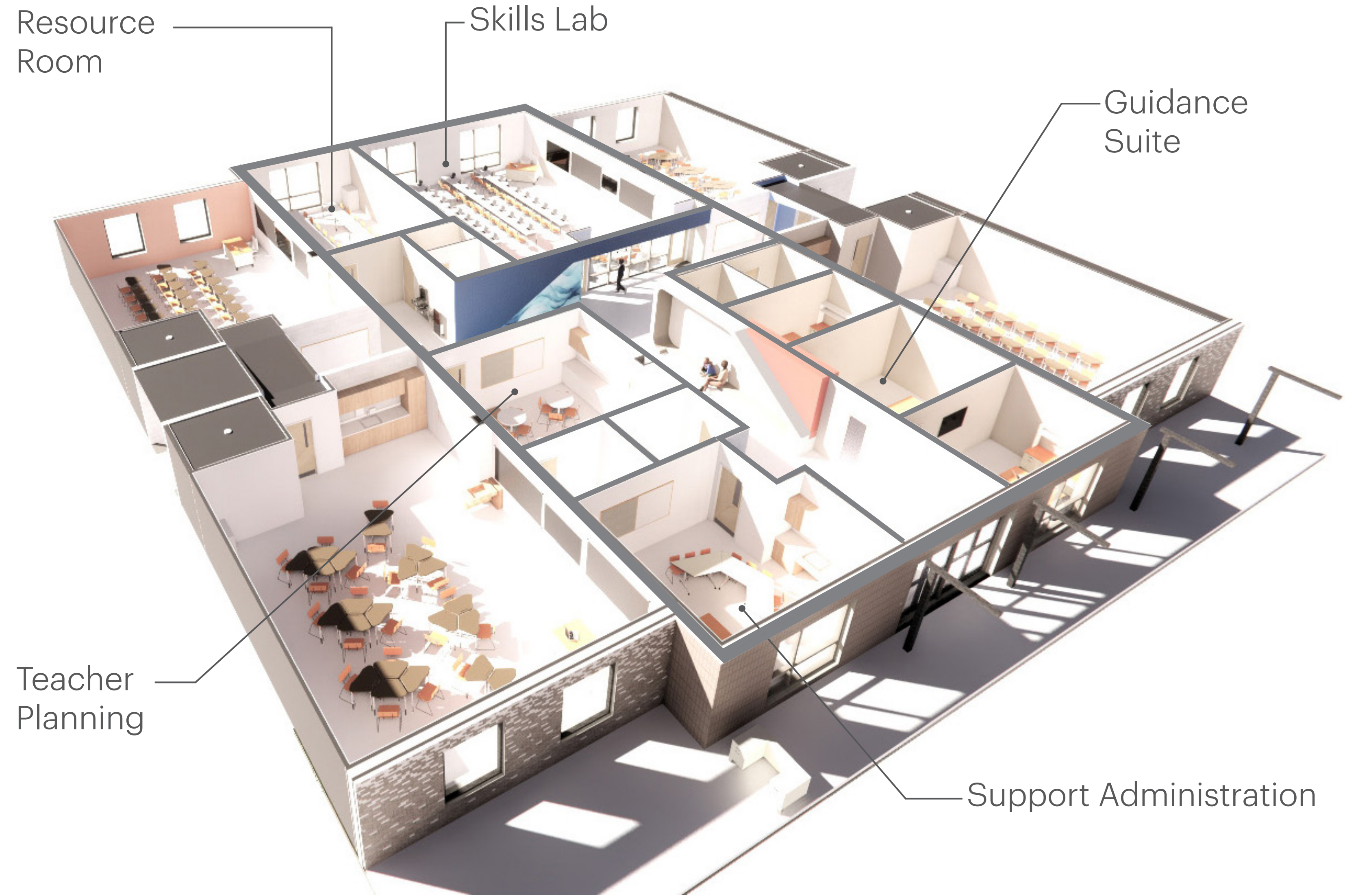
Case Study | Build Community



Case Study | Build Community



Case Study | Build Community



Case Study | Celebrate Place

REEF



8TH

RIPARIAN



6TH + 7TH

SAND HILLS



5TH

FLATWOODS



4TH

WETLANDS



2ND + 3RD

SALT MARSH



PRE-K, K +1

Case Study | Build Community

WETLANDS



SAND HILLS



REEF

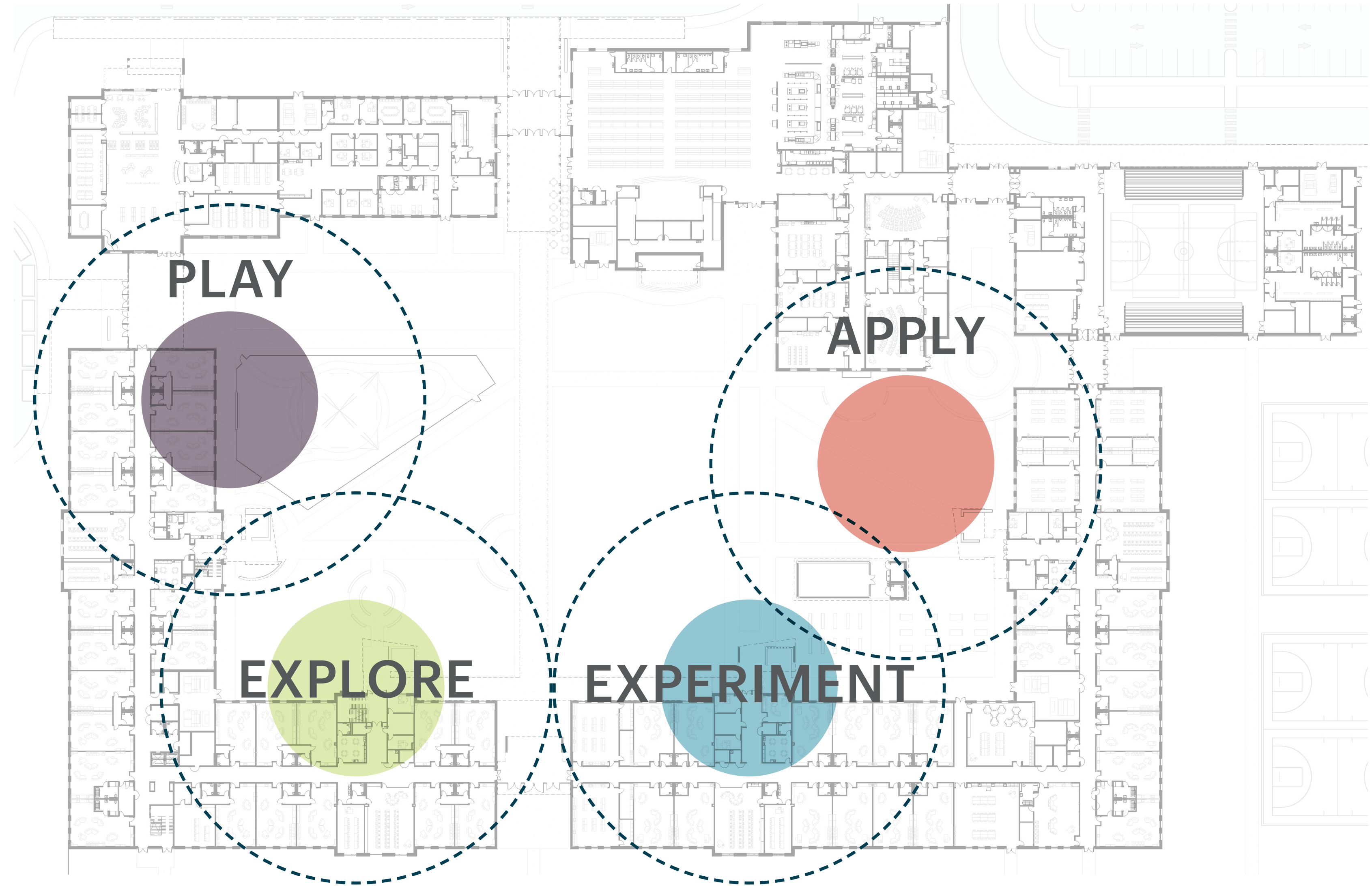
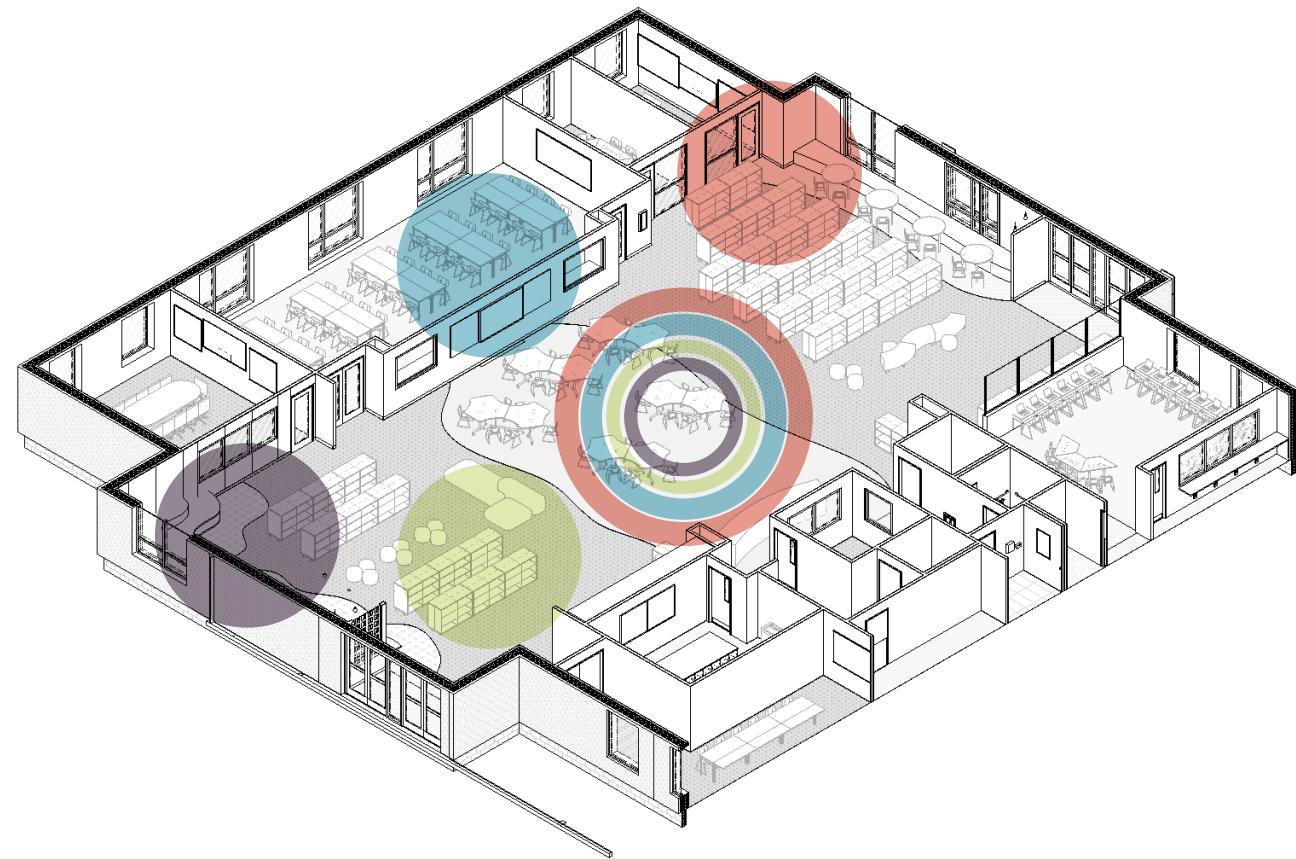


Case Study | Build Community



Case Study | Nuture Age Diversity

- Exterior and interior zoned areas for age groups
- Intentionality with points of convergence
- Inclusive design in core areas including millwork, restroom fixtures and educational equipment
- Scale and wayfinding considerations



Case Study | Nuture Age Diversity



Case Study | Nuture Age Diversity

DINING

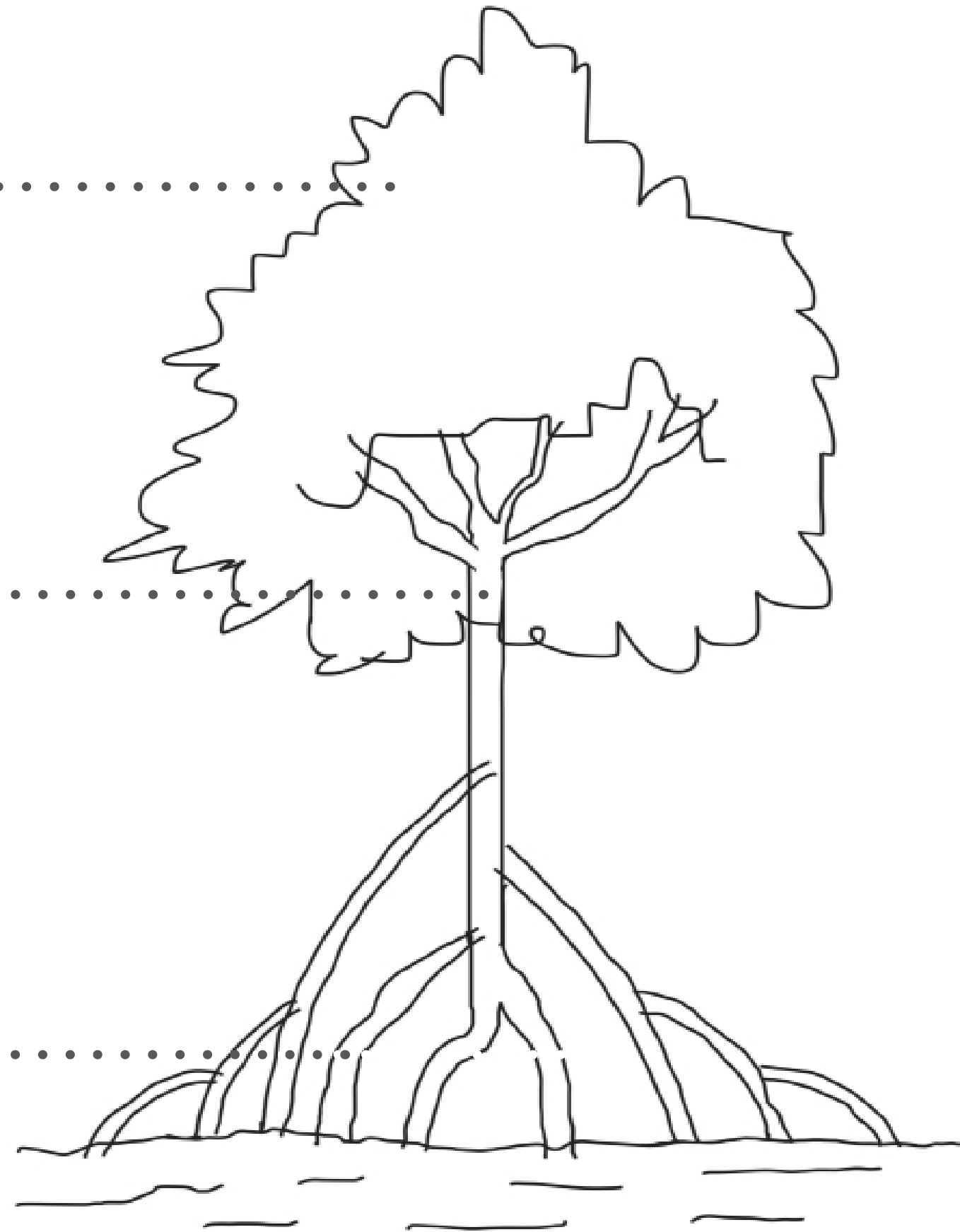
.....
*PERSPECTIVE +
AUTONOMY*

GYMNASIUM

.....
BRANCHING OUT

MEDIA CENTER

.....
ROOTED IN LITERACY



Application | Nature Age Diversity



Motor Stimulus

Action possibility for movement



Cognitive Stimulus

Action possibility for knowledge and understanding




Social Stimulus

Action possibility for interaction



Sensory Stimulus

Action possibility for sensory response



Visual Complexity
Diverse colors, patterns, and shape dimensionally considering walls, or reducing perceptions of clutter.

Interior


Visual Complexity

Student Impact

- Increase **perception of creativity** [x]
- Increase **academic progress** [x]
- Decrease **distraction** and **time off task** [x]
- Higher **learning gains** [x]
- Increase **visuospatial response** and **memory** [x]

Teacher Impact

- Increase **perception of creativity** [x]
- Increase **creative habitats** [x]
- Increase **memory retention** [x]
- Increases in **overall feeling of well-being** [x]



Daylighting
Maximizing the amount of natural light within the interior building.

Architecture

Daylighting

Student Impact

- Reduce **stress** levels [x]
- Increase **math** and **reading** performance [x]
- Increase **math** and **logic** performance [x]
- Increase **physical activity** [x]
- Increase **sleep duration** and **sleep quality** [x]

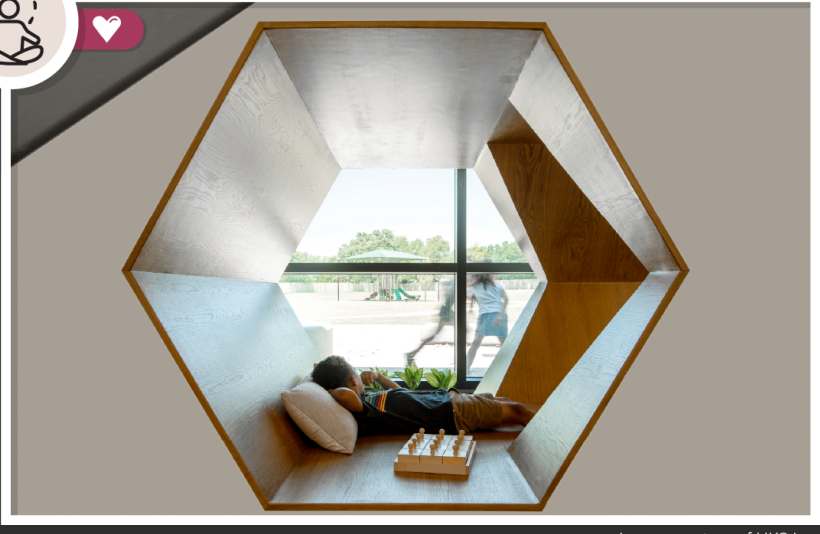
Teacher Impact

- Improve **visual comfort** and **lighting satisfaction** [x]
- Increase **sleep duration** and **cognitive performance** [x]

[x] Heschang, L., et al. (2002), [x] Baloch, R., et al. (2020), [x] Küller, R., et al. (1992), [x] Aggio, D., et al. (2015), [x] Boubkeri, M., et al. (2020), [x] Asojo, A., et al. (2020)

From the Teacher's Desk

Specifically on the ground floor, reduce distraction views from



Views to Nature
Space Type: **School/Landscape**

Provide views to nature, primarily through windows, for the visual experience of changing sky conditions, vegetation, and the overall outdoor ecosystem.

Architecture

Views to Nature

Student Impact

- Increase **perception of creativity** [x]
- Reduce **severity of ADD symptoms** [x]
- Increase **standardized test scores, graduation rates, and college plans** [x]

Teacher Impact

- Increase employees' **productivity, concentration, and well-being** [x]
- Reduce employees' **fatigue, stress, and depression** [x]
- Improves **psychological, physiological, and productivity performance** [x]
- Improves **relaxation and positive mood** [x]
- Decreases **stress** and **high arousal** [x]
- Improves **mental health** [x]
- Decrease **anxiety** and **tension** [x]
- Increase **productivity** and **well-being** [x]

[x] McCoy, J.M., et al. (2002), [x] Taylor, A.F., et al. (2016), [x] Matsuoka, R.H., (2010), [x] Bergefurt, L., et al. (2022), [x] Lei, Q., et al. (2021), [x] Ulrich, R.S., (1981), [x] Al Horr, Y., et al. (2016).

From the Teacher's Desk

In classrooms without views to nature, especially those without windows, teachers lose the connection to the weather and time of day creating an uncomfortable disconnect from the outside world.

Application | Nurture Age Diversity



Application | Nuture Age Diversity



Conclusion | What's Old is New Again



From home



... to schoolhouse...

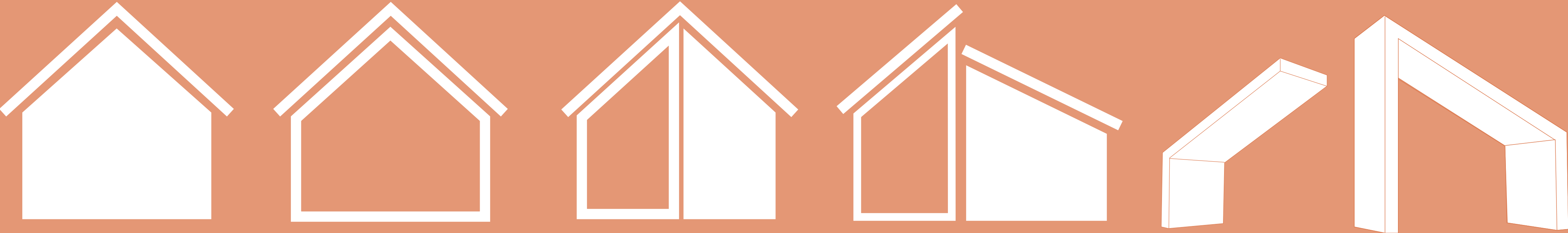


... to common center ...



... back to HOME.

Questions



HOME.

Want to Learn More?



Jessica
Roddenberry



Visual Design
Guide

